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April 30, 2010

Ms. Erin Brittain
Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Re: **Quarterly Monitoring Progress Report – 1st Quarter 2010**
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana 46222
IDEM Incident # 0000198
IDEM VRP # 6061202
MUNDELL Project No. M01046

Dear Ms. Brittain:

This *Quarterly Monitoring Progress Report* is being submitted to the Indiana Department of Environmental Management (IDEM) by MUNDELL & ASSOCIATES, INC. (MUNDELL), on behalf of AIMCO, to summarize further site characterization, remediation activities and quarterly monitoring performed from January 1 through March 31, 2010. The following sections provide detailed discussions of the results of this work. All activities were completed on schedule.

United States Environmental Protection Agency (U.S. EPA)/IDEM MEETING – MARCH 6th, 2010

Mr. John Mundell and Ms. Sarah Webb met with Ms. Erin Brittain, Ms. Sarah Finley-Johansen and Ms. Kristie McIntyre of IDEM; Mr. Brian Schlieger and Ms. Shelly Lam of the U.S. EPA; and Mr. Jay Rush of Weston Solutions, Inc., on March 6th, 2010 regarding the vinyl chloride impacts in residential wells west of the Plaza and south of Allison Transmission Plant 12. The following topics were discussed:

Topics Discussed

- 1) Possible location of additional MUNDELL monitoring wells east of Holt Road to further understand groundwater flow direction south of the Plaza along Little Eagle Creek.
- 2) Proposed downgradient monitoring well locations for the Allison Transmission Plant 12 for evaluation of potential off-site vinyl chloride migration.

As of April 8, 2010 Allison was proceeding with the installation of four soil borings and two piezometers southeast of Allison Plant 12. Allison was not present at the IDEM/U.S. EPA meeting.

MUNDELL's assessment of the local groundwater flow conditions near Allison Plant 12 led to a different conclusion regarding how to proceed with the additional groundwater investigation. During the IDEM/U.S. EPA meeting, MUNDELL commented that completion of two resistivity lines southeast of Allison Plant 12 would allow for proper well screen placement and sampling intervals within the various saturated units. The geophysical survey would be followed with installation of three piezometers (or nested wells) along the Allison Plant 12 southeastern property line.

At this time it appears Allison has gone forth with its original work plan installing four soil borings and two piezometers southeast of Plant 12. Analytical results from this investigation have yet to be provided to MUNDELL.

- 3) Creation of a unified area map and completion of a unified groundwater elevation gauging event, at the request of the U.S. EPA.

GROUNDWATER MONITORING NETWORK SAMPLING

On February 3rd to 4th, 2009, quarterly groundwater sampling of the existing twenty-four (24) monitoring wells established with IDEM, and the two (2) additional monitoring wells on the Floral Park Cemetery property was performed. The following constitute this quarterly groundwater monitoring network:

- 1) *Twenty-four (24) MUNDELL monitoring wells:* MMW-1S, MMW-8S, MMW-9S, MMW-10S, MMW-11S, MMW-11D, MMW-12S, MMW-13D, MMW-14D, MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-09S, MMW-P-09D, MMW-P-10S, MMW-P-10D and MMW-C-01 and MMW-C-02 (MUNDELL wells on Floral Park Property).
- 2) *One (1) Keramida monitoring well:* MW-168D. MW-168S was not sampled due to an insufficient volume of water in the well.

MUNDELL also measured static groundwater elevations via an electric oil/water interface probe from the following additional wells this quarter:

- 1) MUNDELL monitoring wells MMW-3S, MMW-4D, MMW-5D, MMW-6D and MMW-7S.
- 2) *Nine (9) Keramida monitoring wells:* MW-167S, MW-167D, MW-168S, MW-169S, MW-169D, MW-170S, MW-170D, MW-171S and MW-171D.

The purpose of this ‘all monitoring wells gauging event’ in February 2010 was to more accurately determine the groundwater flow direction and gradient over this wider area.

During this investigation, monitoring wells MMW-10S, MMW-10D, MMW-P-07 and MW-168D were found to contain black flakes at the top of the water table. Black precipitate in groundwater can indicate the presence of iron reducing bacteria. Limited ferrous iron analyses following the initial CAP 18TM injection in August 2007 indicate slight elevations of ferrous iron concentrations within these monitoring wells, suggesting the black precipitate observed is potentially the byproduct of reductive biotransformation within the aquifer.

All monitoring well sampling, survey and construction data are provided in **Tables 1, 2 and 2a**, respectively, and the potentiometric map is illustrated in **Figure 1**.

The wells were sampled utilizing the dedicated bladder pumps for uniform low-flow purging and sample collection. The Troll 9500 multi-parameter meter (used inline with the dedicated bladder pumps) logs geochemical parameters (e.g. temperature, pH, dissolved oxygen, conductivity and oxidation reduction potential), which helps remove a minimal but sufficient amount of water (indicated by stabilization of geochemical parameters) to sample the well. The Troll helps assess the geochemical parameters as evidence of conditions naturally conducive to natural attenuation existing in the aquifer. All excess purge water was transported to 55-gallon drums located at the Site for proper disposal. In accordance with IDEM guidelines, the contents in each drum were then identified with a label describing them as non-hazardous materials.

As agreed in the October 29th, 2008 meeting with IDEM and detailed in the *RWP Addendum* November 2008, groundwater samples were submitted to Pace Analytical Laboratories (Pace) in Indianapolis, Indiana for the shorter list of VOC analysis via U.S. EPA SW-846 Method 8260, along with the appropriate duplicate (DUP), matrix spike (MS) and matrix spike duplicate (MSD). Groundwater samples were transferred into three 40-milliliter glass sample vials containing the preservative hydrochloric acid (HCl). Groundwater sample vials were sealed in plastic bags and placed in a cooler containing ice and delivered to Pace using appropriate chain-of-custody protocol for laboratory tests. Pace laboratory certificates of analysis for the groundwater samples analyzed are presented in **Appendix A**.

Baseline groundwater geochemical parameters (pH, dissolved oxygen, oxidation-reduction potential, conductivity and temperature) were measured with a low-flow cell and multi-parameter water quality probe in this post-injection period to evaluate whether aquifer conditions continue to be favorable for natural attenuation of the indicator compounds at the Site.

Additional aquifer chemical parameter testing has been performed in the past and will be scheduled based on the observed response and remedial status in each plume area going forward. Additional aquifer parameters including methane, ethene and ethane are periodically analyzed to evaluate the indicator compound breakdown and redox-sensitivity. In addition, volatile fatty acids (VFA) will also be tested periodically to evaluate the injection substrate CAP 18™ distribution and lifetime duration of the product. These samples will be collected in select monitoring wells representative of each plume to monitor the presence of residual CAP 18™ in the aquifer and to provide additional monitoring of aquifer conditions. Future monitoring of these constituents will be performed as needed to evaluate the natural attenuation process.

INDOOR AIR MONITORING

On March 4th, indoor air samples (taken via summa canisters) were collected at four tenant units at Michigan Plaza (Village Pantry (3801), Vacant Handicapped space (3815), Mexican Grocery store (3819) and the Laundromat (3823)) with the air mitigation systems on, and at four apartments (Basement Apt. 101 (Building No. 1), Basement Apt. 602 (Building No. 6), Basement Apt. 1001 (Building No. 10), and Apt No. 108 (Second Floor, Building No. 1)).

Indoor air samples (via summa canisters) were also collected at two more tenant units at Michigan Plaza (Alcoholics Anonymous (3817), and the vacant library space (3805) on March 4th, 2010, since the 3817 and 3805 spaces are now periodically occupied.

Tables 3a, 3b, 3c and 3d present the air sampling results for Michigan Plaza, Michigan Apartments, soil gas monitoring wells and the health based limits in air respectively. **Figure 2** demonstrates the recent and historical air analytical results.

GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical testing results for this quarter are summarized in **Table 4** and presented on **Figure 3**. Two (2) out of the twenty-five (25) monitoring wells sampled this quarter (MMW-1S and MMW-P-01) showed PCE concentrations exceeding the IDEM RISC Industrial Default Closure Level (IDEM RISC IDCL). Three (3) monitoring wells (MMW-8S, MMW-10S and MMW-P-02) demonstrated PCE concentrations exceeding the IDEM RISC Residential Default Closure Level (IDEM RISC RDCL) but below the IDCL. The historical groundwater results are included in **Table 5**. The historical indicator compounds trends in groundwater are presented in **Figure 4**.

Two (2) of the monitoring wells (MMW-1S and MMW-P-01) showed TCE concentrations exceeding the IDEM RISC IDCL, with one (1) monitoring well (MMW-10S) exhibiting a level exceeding the RDCL, but below the IDCL.

Three (3) monitoring wells (MMW-9S, MMW-P-01 and MMW-P-08) showed cis-1,2-DCE concentrations exceeding the IDEM RISC IDCL. Eleven (11) monitoring wells (MMW-10S, MMW-11D, MMW-13D, MMW-14D, MMW-P-02, MMW-P-03S, MMW-P-04, MMW-P-06,

MMW-P-07, MMW-P-10D and MMW-C-01) exhibited cis-1,2-DCE concentrations exceeding the RDCL, but below the IDCL.

Twenty (20) monitoring wells (MMW-1S, MMW-8S, MMW-9S, MMW-10S, MMW-11D, MMW-13D, MMW14D, MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-09D, MMW-P-10S, MMW-P-10D, MW-168D and MMW-C-01) showed vinyl chloride concentrations exceeding the IDEM RISC IDCL. One (1) monitoring well (MMW-12S) exhibited a vinyl chloride concentration slightly exceeding the RDCL, but below the IDCL.

The deep monitoring wells MMW-13D and MMW-14D exhibited significant cis-1,2-DCE and exceedances above the RDCL and vinyl exceedances above IDCL during this quarter (see **Figure 3**). Since these wells have been purposefully located upgradient of *Source Areas B* and *C*, the impacts observed in these areas demonstrate groundwater impacts that are attributable to other upgradient, off-site sources and not to Michigan Plaza. As seen on **Figure 3** the indicator compound concentrations at these deep, upgradient wells can be considered as “background levels” defined as the concentration of contaminants from the Genuine source coming into the deeper aquifer in this area. These indicator compound levels aid in discerning between the Michigan Plaza source impacts and the Genuine Site impacts, and will ultimately be used to evaluate the target cleanup levels for the deeper aquifer at the Site.

The indicator compound trends demonstrated at the northern wells (MMW-3S, MMW-4D, MMW-5D, MMW-6D and MMW-7S) at Michigan Apartments are attached in **Appendix C**. The cis-1,2-DCE and vinyl chloride concentrations coming onsite from the upgradient sources are still well above the RISC IDCLs in most of the northern wells (at the northern fence line) indicating that the remediation at the upgradient property will require multiple additional years to achieve acceptable cleanup levels.

IN-SITU BIOREMEDIATION PROGRESS

Based upon the 1) extent and severity of the indicator compound concentrations and trends, 2) site-specific operational constraints and uses, 3) geochemical and physical characteristics of the aquifer, and 4) economic factors, in-situ bioremediation with CAP18™ (an enhanced, food-grade vegetable oil product), followed by Monitored Natural Attenuation (MNA) is the selected remediation technology for the Site for treating groundwater, as detailed in the *RWP*. The initial CAP18™ injection was performed in all the three source areas in August 2007 using a direct push Geoprobe system. Locations and spacing of the injection points were designed to address the sewer line related *Chemical Source Areas* and provide injection locations in each *Chemical Source Area* that upon migration downgradient in the direction of groundwater flow, are expected to remediate the most significant groundwater impacts. A booster CAP18™ injection was performed in February 2009 to aggressively treat some areas where the chemical concentrations have begun to stabilize or are decreasing at a slow rate. During this quarter, no additional CAP 18™ injections have been performed.

Indicator Chemical Trends

A group of monitoring wells from the sampling network is utilized to monitor dissolved indicator compound concentration trends over time at various locations within the heart of the three *Chemical Source Areas*. Graphs of historical PCE, TCE, cis-1,2-DCE and vinyl chloride concentrations are developed for the following monitoring wells:

Source Area A: MMW-P-03D

Source Area B: MMW-P-01, MMW-P-07, MMW-P-08 and MMW-8S

Source Area C: MMW-1S, MMW-9S and MMW-10S

Figures 4 and **5** illustrate the changes in the chlorinated solvents concentrations demonstrating reductive dechlorination as a result of the CAP 18TM remediation implementation. To illustrate the effect of the CAP 18TM injection on dissolved chlorinated concentrations, injection dates are included on the graphs.

PCE and cis-1,2-DCE impacts in **Source Area A** (MMW-P-03D) appear to have a decreasing trend, and vinyl chloride demonstrated an increasing trend after the second round of CAP 18TM injection in February 2009. This is indicative of continued reductive dechlorination in this area (indicating further breakdown of parent compounds) in *Source Area A*.

PCE and cis-1,2-DCE impacts in the **Source Area B** have decreased, with corresponding increases in the vinyl chloride (MMW-P-01 and MMW-P-07) concentrations this quarter. This is indicative of reductive dechlorination in *Source Area B*.

There was a slight increase in the PCE concentration in monitoring well MMW-8S immediately after injection during the fourth quarter of 2007, accompanied by a spike in cis-1,2-DCE and vinyl chloride concentrations. A decreasing trend in PCE concentrations at MMW-8S began during the first quarter of 2008 and continued through the fourth quarter 2009. A slight increase in PCE was observed during this quarter. MMW-P-08 showed increases in both cis-1,2-DCE and vinyl chloride concentrations during this quarter while PCE concentrations remained below laboratory detection limits. Cis-1,2-DCE and vinyl chloride concentrations spiked after the first CAP 18TM injection downgradient of *Source Area B*, followed by decreasing cis-1,2-DCE trends and stable vinyl chloride trends. These trends remained consistent up until the 2nd injection event in February 2009. Since then, cis-1,2-DCE and vinyl chloride concentrations have been steadily decreasing. The analytical results are attached in **Appendix A**.

PCE impacts in the **Source Area C** (MMW-1S, MMW-9S and MMW-10S) appear to have a decreasing trend this quarter, and vinyl chloride demonstrated an increasing trend for this quarter. Cis-1,2-DCE concentrations were slightly decreasing this quarter in MMW-1S, MMW-9S and MMW-10S. This is indicative of continued reductive dechlorination in *Source Area C*.

Thus, an overall decreasing trend in PCE and TCE concentrations (in some areas achieving nondetectable concentrations), and an increase in the daughter product concentrations (indicating

breakdown of parent compounds via reductive dechlorination) have occurred significantly since the CAP 18TM injections in the *Source Areas A, B and C* in August 2007 and February 2009.

Indoor Air Sampling Results - 2010

Reduced indoor air concentrations (observed in the following spaces: Apt Buildings No. 1 (Apt 101) and 10 (Apt 1001), the Village Pantry space, Plaza 3805 (the former library space), Plaza 3811 (the former handicap space), the AA Suite, the Mexican Store and the Laundromat) were below the IDEM 2006 and IDEM 2010 target levels and are illustrated in the attached **Figure 2**. Also, reduced concentrations were noted in the soil gas monitoring well MGW-1 indicating COCs are being remediated in the area. **Table 3d** presents the U.S. EPA and IDEM screening/target levels.

The indoor air results at the Village Pantry, Mexican store and the Laundromat are all below both IDEM and U.S. EPA action levels (with the vapor mitigation systems running). This is consistent with testing over the past several years in the Plaza spaces where mitigation systems have been installed. The indoor air results for Plaza 3815 remain slightly above the IDEM 2006 action levels. Significant reductions in PCE and TCE concentrations have occurred in this space over the past six (6) years since installation and operation of the vapor mitigation system was initiated in 2003.

Indoor air concentrations have dramatically reduced in the 3817 Michigan Street location (currently Alcoholics Anonymous) and the 3805 Michigan Street space (former Library space). In addition, Plaza 3811 (the former Handicap space) showed minimal PCE and vinyl chloride concentrations and were void of TCE and cis-1,2-DCE impacts. Please note that these spaces DO NOT have vapor mitigation systems in place. These concentration reductions continue to demonstrate that site remedial activities continue to be successful in significantly reducing the indoor air impacts (see attached **Figure 2**). The PCE concentrations in each of these spaces are below the U.S. EPA and IDEM 2006 and 2010 action levels.

One of the Michigan Meadows Apartment building basement apartments (Apt No. 602) had an indoor air PCE concentration exceeding the IDEM 2006 and 2010 action levels. It should be noted that all the indoor air concentrations have been compared to the most conservative (25 or 30 year exposure) IDEM action levels (2006 and 2010 versions). The basement apartment is presently unoccupied with no exposure potential.

The soil gas monitoring well (MGW-5) showed a spike in the contaminant concentrations during the March 2010 sampling round which could be attributed to subsurface changes resulting from increased reductive dechlorination resulting from the 2nd CAP-18 injection event in February 2009. MGW-5, located in the middle of the plaza parking lot, will be sampled in June 2010. This soil gas well shows impacts exceeding some of the U.S. EPA (for TCE, cis-1,2-DCE and vinyl chloride) and IDEM 2006 (PCE, TCE and vinyl chloride) soil gas screening levels.

Considering the worst case scenario (an exposure duration of 25 years) yields a conservative comparison to actual risks to human health, as this location has been a parking lot since the initial development of the land. Furthermore, the nearest inhabited indoor spaces are all currently being addressed with air mitigation systems. Therefore, exposure pathways are significantly being reduced. MUNDELL will sample this gas well (MGW-5) again in June 2010 along with the next quarterly groundwater sampling round, to monitor soil gas trends in this area, particularly since it is located in the heart of *Source Area B*. MUNDELL anticipates these levels have been introduced from the previously existing groundwater plume in *Source Area B* which is currently undergoing dechlorination via the CAP 18™ remediation.

INDOOR AIR MITIGATION SYSTEMS PERFORMANCE

Four sub-floor slab depressurization units were installed by *Air Quality Control (AQC)* under the oversight of MUNDELL in September 2006. Three additional sub-floor slab depressurization units were installed by AQC under the oversight of MUNDELL on March 19 and 26, 2008. Unit/blowers were installed in the following spaces at Michigan Plaza: 1) the Village Pantry (B1), 2) the former Handicap Space (B2), 3) the Mexican Store (B3), and 4) the Laundromat (B4). The systems installed at the Michigan Apartments are: Building No. 1, Basement Apartment 101 (B5), Building No. 6, Basement Apartment 602 (B6), and Building No. 10, Basement Apartment 1001 (B7). The system locations are illustrated in **Figure 6**.

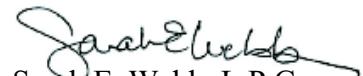
Since the time of installation, system stack air samples were collected weekly for a few weeks followed by bi-weekly sampling for a month, monthly for a quarter and then on a quarterly basis thereafter. PID readings have also been concurrently measured in each of the stacks. The historical PCE concentration trends and cumulative pounds of PCE and total contaminants removed by each of the systems (B1 through B7) are summarized in **Figures 7 through 15**.

As of the end of the first quarter of 2010, approximately *12.46 pounds* of PCE and *14.89 pounds* of total chlorinated solvents have been removed at the *Michigan Apartments property* (sub-slab depressurization systems **B5**, **B6** and **B7**); and approximately *85.35 pounds* of PCE and *91.20 pounds* of total chlorinated solvents have been removed at the *Michigan Plaza property* (sub-slab depressurization systems **B1**, **B2**, **B3** and **B4**). The associated calculations are provided in **Appendix B**. A concentration of half the PQL (practical quantitation limit) is assumed for the indicator compounds demonstrating concentrations below the laboratory PQL with the exception of vinyl chloride where an average concentration of 0.15 PPMV (derived from the J flag values for VC concentrations below PQL) is used for calculation purposes.

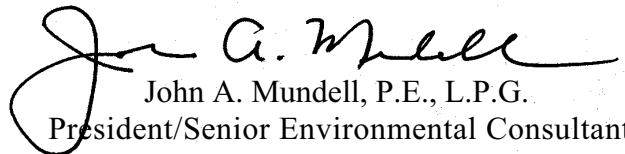
We appreciate the opportunity to update IDEM on the progress of remedial activities and monitoring at the Site. If you have any questions, please do not hesitate to contact us at (317) 630-9060 or via email (jmundell@MundellAssociates.com; swebb@MundellAssociates.com).

Sincerely,

MUNDELL & ASSOCIATES, INC.



Sarah E. Webb, L.P.G.
Project Hydrogeologist



John A. Mundell, P.E., L.P.G.
President/Senior Environmental Consultant

Attachments: Tables
 Figures
 Appendices

cc: Mr. Eric Hilty, AIMCO

TABLES

Table 1	Tabulated Groundwater Level Measurements
Table 2	Monitoring Well Construction Summary
Table 2a	Monitoring Well Construction Summary
Table 3a	Air Sampling Analytical Results – TO-15 SIM Analysis: Michigan Plaza Shopping Center
Table 3b	Air Sampling Analytical Results – TO-15 SIM Analysis: Michigan Meadows Apartments
Table 3c	Air Sampling Analytical Results – TO-15 SIM Analysis: Soil Gas Monitoring Data
Table 3d	Air Concentration Health-based Limits: Michigan Plaza Shopping Center
Table 4	Monitoring Well Groundwater Analytical Results
Table 5	Monitoring Well Cumulative Analytical Results

FIGURES

Figure 1	Potentiometric Surface Map
Figure 2	Recent & Historical Air Analytical Results
Figure 3	Groundwater Analytical Results (First Quarter 2010)
Figure 4	Indicator Compound Trends in Groundwater
Figure 5	Parent and Daughter Products Distribution in Groundwater
Figure 6	Vapor Mitigation System Locations
Figure 7	PCE Concentration Trends & Cumulative Pounds Removed (B-1)
Figure 8	PCE Concentration Trends & Cumulative Pounds Removed (B-2)
Figure 9	PCE Concentration Trends & Cumulative Pounds Removed (B-3)

- Figure 10 PCE Concentration Trends & Cumulative Pounds Removed (B-4)
- Figure 11 PCE Concentration Trends & Cumulative Pounds Removed (B-5)
- Figure 12 PCE Concentration Trends & Cumulative Pounds Removed (B-6)
- Figure 13 PCE Concentration Trends & Cumulative Pounds Removed (B-7)
- Figure 14 PCE Concentration Trends & Cumulative Pounds Removed (B-1 through B-4)
- Figure 15 PCE Concentration Trends & Cumulative Pounds Removed (B-5 through B-7)

APPENDICES

Appendix A. Lab Analytical Results

Appendix B. Air Mitigation Systems: Pounds of Contaminants Removed

Appendix C. Indicator Compound Trends at the Northern Wells

TABLES

Table 1
Tabulated Water Level Measurements
Quarter 1 (2010)
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Monitoring Well	Date of Water Level	Top of Casing Elevation (feet MSL)	Total Depth (feet)	Depth To Water (feet)	Groundwater Elevation (feet MSL)
On-Site Monitoring Wells					
MMW-P-01	2/3/2010	714.903	28	19.29	695.61
MMW-P-02	2/3/2010	715.686	30	20.29	695.40
MMW-P-03S	2/3/2010	715.6	28	20.2	695.40
MMW-P-03D	2/3/2010	715.582	35	20.2	695.38
MMW-P-04*	2/3/2010	715.492	28	NS	NS
MMW-P-05	2/3/2010	715.17	28	19.64	695.53
MMW-P-06	2/3/2010	715.721	28	20.24	695.48
MMW-P-07	2/3/2010	714.471	28	18.46	696.01
MMW-P-08	2/3/2010	714.142	28	18.09	696.05
MMW-P-10S	2/3/2010	713.941	28	18.28	695.66
MMW-P-10D	2/3/2010	714.05	38	18.06	695.99
Off-Site Monitoring Well (Olin-Cossell ROW)					
MMW-P-09S	2/3/2010	714.447	28	19.94	694.51
MMW-P-09D	2/3/2010	714.394	45	19.92	694.47
Off-Site Monitoring Wells (Keramida)					
MW-167S	2/3/2010	716.25	22	18.78	697.47
MW-167D	2/3/2010	716.25	33	18.98	697.27
MW-168S	2/3/2010	714.79	22	18.08	696.71
MW-168D	2/3/2010	714.71	31	18.03	696.68
MW-169S	2/3/2010	715.95	25	20.41	695.54
MW-169D	2/3/2010	715.23	37	20.47	694.76
MW-170S	2/3/2010	717.40	27	21.17	696.23
MW-170D	2/3/2010	717.34	39	21.12	696.22
MW-171S	2/3/2010	711.83	22	15.82	696.01
MW-171D	2/3/2010	711.88	49	16.31	695.57
Off-Site Monitoring Wells (Michigan Meadows Apartments)					
MMW-1S	2/3/2010	712.54	20	16.13	696.41
MMW-2S	2/3/2010	712.588	20	NS	NS
MMW-3S	2/3/2010	709.763	30	12.70	697.063
MMW-4D	2/3/2010	710.877	66	13.85	697.027
MMW-5D	2/3/2010	710.852	51	13.62	697.232
MMW-6D	2/3/2010	711.971	51	14.71	697.261
MMW-7S	2/3/2010	711.64	26	14.29	697.35
MMW-8S	2/3/2010	713.81	24	17.15	696.66
MMW-9S	2/3/2010	713.249	25	17.33	695.919
MMW-10S	2/3/2010	713.23	25	16.29	696.94
MMW-11S	2/3/2010	713.69	33	16.12	697.57
MMW-11D	2/3/2010	713.64	33	16.29	697.35
MMW-12S	2/3/2010	712.82	24	15.41	697.41
MMW-13D	2/3/2010	712.884	50	16.1	696.784
MMW-14D	2/3/2010	711.77	50	15.20	696.57
Monitoring Wells Installed 2008					
MW-C-01	2/3/2010	715.272	28	19.98	695.292
MW-C-02	2/3/2010	714.22	28	19.33	694.89

* This well has been corrected for 3.77 of cap 18 (density of 0.96) oil in well

Table 2
Monitoring Well Construction Summary
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Monitoring Well	Date Installed	Date of Water Level	*Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)			Depth To Water (feet)	Groundwater Elevation (feet MSL)
MMW-P-01	09/28/05	9/19/07	715.79	28.00	18.00	-	28.00	19.69	696.10
MMW-P-02	09/27/05	9/19/07	716.70	30.00	20.00	-	30.00	20.90	695.80
MMW-P-03S	09/26/05	9/19/07	716.55	28.00	18.00	-	28.00	20.79	695.76
MMW-P-03D	09/27/05	9/19/07	716.45	35.00	25.00	-	35.00	20.63	695.82
MMW-P-04	09/26/05	9/19/07	716.27	28.00	18.00	-	28.00	20.49	695.78
MMW-P-05	09/26/05	9/19/07	716.12	28.00	18.00	-	28.00	20.14	695.98
MMW-P-06	09/28/05	9/19/07	716.50	28.00	18.00	-	28.00	20.57	695.93
MMW-P-07	01/11/07	9/19/07	715.30	28.00	18.00	-	28.00	18.84	696.46
MMW-P-08	01/11/07	9/19/07	715.22	28.00	18.00	-	28.00	18.61	696.61
MMW-P-09S	01/29/07	9/19/07	715.36	28.00	18.00	-	28.00	20.17	695.19
MMW-P-09D	05/31/07	9/19/07	715.21	45.00	35.00	-	45.00	20.35	694.86
MMW-P-10S	06/01/07	9/19/07	714.59	28.00	18.00	-	28.00	18.30	696.29
MMW-P-10D	06/01/07	9/19/07	714.98	38.00	28.00	-	38.00	18.69	696.29

Note: The top of casing elevation for each well was determined assuming a surveyed top of casing elevation of 712.54 ft elevation given in the Keramida Phase II Investigation Report dated March 2002 for well MW-165S (located along Michigan Meadows Apartments northern property line) and a surveyed top of casing elevation of 711.88 ft for well MW-171D located east-southeast of Michigan Plaza on Olin Avenue.

Table 2a
Monitoring Well Construction Summary
Michigan Apartments
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Monitoring Well	Date Installed	Date of Water Level	*Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)			Depth To Water (feet)	Groundwater Elevation (feet MSL)
MMW-1S	8/20/04	9/19/07	713.66	20.00	10.00	-	20.00	16.36	697.30
MMW-8S	1/11/07	9/19/07	714.75	24.00	14.00	-	24.00	17.41	697.34
MMW-9S	1/12/07	9/19/07	714.09	25.00	15.00	-	25.00	17.45	696.64
MMW-10S	1/12/07	9/19/07	713.23	25.00	15.00	-	25.00	16.17	697.06
MMW-11D	5/31/07	9/19/07	713.69	33.00	23.00	-	33.00	16.43	697.26
MMW-11S	11/26/08	NM	713.64	24.00	14.00	-	24.00	NM	NA
MMW-12S	11/26/08	NM	712.82	28.00	18.00	-	28.00	NM	NA
MMW-13D	11/21/08	NM	713.53	50.00	35.00	-	50.00	NM	NA
MMW-14D	12/10/08	NM	712.61	50.00	40.00	-	50.00	NM	NA

Note: The top of casing elevation for each well was determined assuming a surveyed top of casing elevation of 712.54 ft elevation given in the Keramida Phase II Investigation Report dated March 2002 for well MW-165S (located along Michigan Meadows Apartments northern property line) and a surveyed top of casing elevation of 711.88 ft for well MW-171D located east-southeast of Michigan Plaza on Olin Avenue.

NM: Not Measured

NA: Not Available

TABLE 3a

AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS

Sampling Events - April 2003, October 2004, September 2005, October 2006, April 2008, February 2009, March 2009, March 2010

Michigan Plaza Shopping Center

Indianapolis, Indiana

MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-1,2-			Vinyl Chloride (VC)		
		ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3
PLAZA 3801 (Village Pantry)	4/25/2003	38	260	0.2600	0.09	0.49	0.0005	ND	ND	ND	ND	ND	ND
	9/29/2005	26	180	0.1800	0.07	0.39	0.0004	0.09	0.36	0.0004	0.98	2.50	0.0025
	10/12/2006	0.98	6.70	0.0067	ND	ND	ND	0.061	0.24	0.0002	0.1	0.27	0.0003
	4/14/2008	0.15	1.0	0.0010	ND	ND	ND	ND	ND	ND	0.079	0.20	0.00020
	2/26/2009	0.84	5.7	0.0057	ND	ND	ND	ND	ND	ND	0.46	1.20	0.00120
	3/4/2010	0.12	0.8	0.0008	ND	ND	ND	ND	ND	ND	0.18	0.45	0.00045
PLAZA 3811 (Former Handicap Space)	3/4/2010	0.26	1.7	0.0017	ND	ND	ND	ND	ND	ND	0.0073	0.19	0.00019
FORMER LIBRARY	4/25/2003	176.75	1,200	1.2000	0.43	2.30	0.0023	0.09	0.36	0.0004	ND	ND	ND
	3/17/2009	1.70	11	0.0110	ND	ND	ND	ND	ND	ND	1.1	2.90	0.00
	3/4/2010	0.11	1	0.0008	ND	ND	ND	ND	ND	ND	0.19	0.48	0.0005
PLAZA 3815 (Vacant)	4/25/2003	250	1,700	1.7000	0.43	2.30	0.0023	0.08	0.33	0.0003	ND	ND	ND
	10/7/2004	18	120	0.1200	0.16	0.86	0.0009	0.17	0.67	0.0007	0.73	1.90	0.0019
	9/29/2005	42	280	0.2800	0.10	0.53	0.0005	0.36	1.40	0.0014	0.071	0.18	0.0002
	10/12/2006	3.6	25	0.0250	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/14/2008	1.6	11	0.0110	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	1.8	12	0.0120	ND	ND	ND	ND	ND	ND	0.051	0.13	0.0001
PLAZA 3817 (AA Suite)	4/25/2003	200	1,400	1.4000	0.18	1.0	0.0010	0.0257	0.18	0.0002	ND	ND	ND
	3/17/2009	1	7	0.0070	ND	ND	ND	ND	ND	ND	0.16	0.4	0.0004
	3/4/2010	0.24	1.70	0.0017	ND	ND	ND	0.19	0.75	0.0008	0.11	0.29	0.0003
PLAZA 3819 (Mexican Store)	10/7/2004	26	180	0.1800	0.16	0.86	0.0009	0.17	0.67	0.0007	2.6	6.6	0.0066
	9/29/2005	75	510	0.5100	0.08	0.45	0.0005	0.19	0.75	0.0008	1.6	4.1	0.0041
	10/12/2006	2.2	15	0.0150	ND	ND	ND	0.06	0.22	0.0002	0.2	0.51	0.0005
	4/14/2008	1.30	8.8	0.0088	ND	ND	ND	ND	ND	ND	0.14	0.35	0.0004
	2/26/2009	0.41	2.8	0.0028	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.24	1.6	0.0016	ND	ND	ND	ND	ND	ND	0.067	0.17	0.0002
PLAZA 3819 (Mexican Store) (below slab)	10/7/2004	1.70	12	0.0120	1.70	9.1	0.0091	0.96	3.80	0.0038	0.035	0.089	0.0001
PLAZA3823 (Laundromat)	10/12/2006	0.32	2.20	0.0022	ND	ND	ND	ND	ND	ND	0.053	0.14	0.0001
	4/14/2008	0.35	2.30	0.0023	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	0.13	0.90	0.0009	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.11	0.72	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ambient Air -West of Village Pantry on Fence	10/12/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/14/2008	0.13	0.90	0.0009	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.46	1.2	0.0012
	3/4/2010	0.06	0.39	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND

Note: Results shown in **RED** exceed the draft U.S. EPA commercial guidance; results in bold **BLACK** and with blue **SHADING** exceed IDEM 2006 target commercial air concentrations;
 results with a GREEN outline exceed IDEM 2010 target commercial air concentrations.

TABLE 3b
AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS
Michigan Meadows Apartments
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-1,2-DCE)			Vinyl Chloride (VC)		
		ppb v/v	ug/m ³	mg/m3	ppb v/v	ug/m ³	mg/m3	ppb v/v	ug/m ³	mg/m3	ppb v/v	ug/m ³	mg/m3
Building 1 (basement-laundry room)	4/23/2003	28	190	0.1900	0.38	2.00	0.0020	0.05	0.22	0.0002	ND	ND	ND
Building 1, Basement Apt 101	10/7/2004	6.8	46	0.0460	0.21	1.1	0.0011	0.17	0.67	0.0007	0.05	0.13	0.0001
	4/14/2008	0.11	0.74	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	0.23	1.60	0.0016	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.20	1.40	0.0014	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 1, Apt 104 (second floor)	10/7/2004	0.96	6.5	0.0065	0.08	0.41	0.0004	0.39	1.5	0.0015	0.10	0.25	0.0003
Building 1, Apt 108 (Daughter's Room)	2/26/2009	3.9	27	0.0270	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	2.4	16	0.0160	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 1, Apt 109 (third floor)	10/7/2004	5.8	39	0.0390	0.16	0.86	0.0009	0.13	0.52	0.0005	0.06	0.16	0.0002
	4/14/2008	1.80	12	0.0120	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 6, basement	4/24/2003	0.95	6.4	0.0064	0.05	0.26	0.0003	0.04	0.95	0.0010	ND	ND	ND
Building 6, Basement Apt 602	4/14/2008	0.26	1.8	0.0018	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	0.45	3.1	0.0031	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	5.40	36.0	0.0360	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 20 Apt 2002	10/7/2004	0.06	0.37	0.0004	0.08	0.42	0.0004	0.17	0.67	0.0007	0.05	0.12	0.0001
Building 20 Apt 2006	10/7/2004	0.095	0.64	0.0006	0.11	0.59	0.0006	0.22	0.87	0.0009	0.07	0.17	0.0002
Building 20 Apt 2008	10/7/2004	0.36	2.4	0.0024	0.40	2.1	0.0021	0.23	0.91	0.0009	0.07	0.17	0.0002
Building 10, Basement Apt 1001	4/14/2008	0.26	0.25	0.0003	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 10, Basement Apt 1001	2/26/2009	0.99	6.70	0.0067	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 10, Basement Apt 1001	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ambient Air NW Meadows MAA-1	10/7/2004	0.29	2.0	0.0020	0.30	1.6	0.0016	0.33	1.3	0.0013	0.06	0.15	0.0002
Ambient Air NE Meadows MAA-2	10/7/2004	0.21	1.4	0.0014	0.19	1.0	0.0010	0.18	0.71	0.0007	0.05	0.12	0.0001
Ambient Air SE Meadows MAA-3	10/7/2004	0.3	2.0	0.0020	0.15	0.81	0.0008	0.16	0.63	0.0006	0.05	0.14	0.0001
Ambient Air - Fence East of Bldg 1	4/14/2008	0.08	0.54	0.0005	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.058	0.4	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND

Note: Results shown in **RED** exceed the draft U.S. EPA guidance; results in bold **BLACK** and with blue **SHADING** exceed IDEM 2006 target residential air concentrations;
results with a green **OUTLINE** exceed IDEM 2010 target residential air concentrations.

TABLE 3c
 AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS
Soil Gas Monitoring Data
Michigan Plaza Shopping Center & Michigan Meadows Apartments
Indianapolis, Indiana

MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-1,2-DCE)			Vinyl Chloride (VC)		
		ppb	ug/m ³	mg/m ³	ppb	ug/m ³	mg/m ³	ppb	ug/m ³	mg/m ³	ppb	ug/m ³	mg/m ³
MGW-1	10/7/2004	0.26	1.8	0	0.079	0.42	0.0004	ND	ND	ND	0.2	0.51	0.0005
	4/15/2008	0.08	0.55	0.001	0.06	0.29	0.0003	ND	ND	ND	ND	ND	ND
	2/26/2009	4.8	32	0.032	1.3	6.8	0.0068	0.2	0.8	0.0008	ND	ND	ND
	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MGW-2	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MGW-3	10/7/2004	0.31	2.1	0	0.068	0.37	0.0004	ND	ND	ND	ND	ND	ND
	4/15/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	40	270	0.27	7.4	40	0.04	1.1	4.4	0.0044	0.29	0.73	0.0007
MGW-4	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MGW-5	4/25/2003	18	120	0.12	297	1,600	1.6	479	1,900	1,900	0.43	1.10	0.0011
	10/7/2004	200	1,400	1.4	730	3,900	3.9	730	2,900	2,900	0.60	1.50	0.0015
	4/15/2008	680	4,600	4.6	660	3,600	3.6	230	910	0.91	ND	ND	ND
	2/26/2009	2,100	14,000	14	1,100	5,800	5.8	330	1,300	1.3	790	2,000	2
	3/4/2010	3,800	26,000	26	1,500	8,100	8.1	2,900	12,000	12	240	610	1

Note: The analytical results from the Gas Well (MGW) samples are not indicative of 'breathing zone' air quality, and comparison to published regulatory standards established for the breathing zone are included here for informational purposes only.

Results shown in **RED** exceed the draft U.S. EPA commercial guidance; results in bold **BLACK** and with blue **SHADING** exceed IDEM 2006 target commercial air concentrations; results with a green **OUTLINE** exceed IDEM 2010 target commercial air concentrations.

TABLE 3d
AIR CONCENTRATION HEALTH-BASED LIMITS
IN ug/m³
Michigan Plaza Shopping Center
Indianapolis, Indiana
MUNDELL Project No. M01046

	Chemical Name			
	cis-1,2-Dichloroethylene (cis-1,2-DCE)	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Vinyl Chloride
Carcinogen Classification*	D	B/C	B/C	A
U.S. EPA Draft Guidance Target Indoor Air Concentration^a	35	81	2	28
IDEML Draft Default Residential Vapor Intrusion Concentration^b	37	3	1	2
IDEML Draft Default Commercial Vapor Intrusion Concentration^b	51	7	8	9
IDEML Draft Default Residential Vapor Intrusion Concentration^c	37	36	20	35
IDEML Draft Default Commercial Vapor Intrusion Concentration^c	51	51	200	150
U.S. EPA Draft Guidance Target Deep Soil Gas^a	3,500	8,100	220	280
IDEML Draft Guidance Residential Soil Gas Screening Levels^b	NA	320	120	220
IDEML Draft Guidance Commercial Soil Gas Screening Levels^b	NA	680	790	890
IDEML Draft Guidance Residential Soil Gas Screening Levels^c	NA	3,600	2,000	3,500
IDEML Draft Guidance Commercial Soil Gas Screening Levels^c	NA	5,100	20,000	15,000
IDEML Draft Guidance Residential Sub slab Screening Levels^b	NA	32	12	22
IDEML Draft Guidance Commercial Sub slab Screening Levels^b	NA	68	79	89
IDEML Draft Guidance Residential Sub slab Screening Levels^c	NA	360	200	350
IDEML Draft Guidance Commercial Sub slab Screening Levels^c	NA	510	2,000	1,500

*Integrated Risk Information System (RISC), U.S. Environmental Protection Agency (EPA)

^a**EPA Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils, November 2002**

^b**IDEML Draft Vapor Intrusion Pilot Program Guidance - April 26, 2006**

^c**IDEML Draft Vapor Intrusion Pilot Program Guidance Supplement February 4, 2010**

A = Human Carcinogen

B = Probable human carcinogen

C = Possible human carcinogen

D = Not classifiable as to human carcinogenicity

NA - Not Available

Table 4
Monitoring Well Groundwater Analytical Results
Quarter 1 (2010)
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Monitoring Wells (Apts)							
MMW-1S	2/3/2010	160	49.7	59.1	<5.0	<5.0	35.4
MMW-8S	2/3/2010	7.9	<5.0	15.3	<5.0	<5.0	236
MMW-9S	2/3/2010	<50.0	<50.0	5,090	98.4	<50.0	1,700
MMW-10S	2/3/2010	8.3	7.5	180	5.1	<5.0	148
MMW-11S	2/3/2010	<5.0	<5.0	29.4	<5.0	<5.0	<2.0
MMW-11D	2/3/2010	<5.0	<5.0	301	28.2	<5.0	5.2
MMW-12S	2/3/2010	<5.0	<5.0	11.4	<5.0	<5.0	2.1
MMW-13D	2/3/2010	<5.0	<5.0	819	6.2	<5.0	260
MMW-14D	2/3/2010	<5.0	<5.0	871	13.9	<5.0	84.9
Monitoring Wells (Plaza)							
MMW-P-01	2/4/2010	104	60.6	9,190	130	<50.0	13,600
MMW-P-02	2/4/2010	7.4	<5.0	75.8	5.8	<5.0	104
MMW-P-03S	2/4/2010	<5.0	<5.0	155	19.4	<5.0	382
MMW-P-03D	2/4/2010	<5.0	<5.0	<5.0	<5.0	<5.0	287
MMW-P-04	2/12/2010	<5.0	<5.0	144	8.3	<5.0	224
MMW-P-05	2/4/2010	<5.0	<5.0	6.8	<5.0	<5.0	<2.0
MMW-P-06	2/4/2010	<5.0	<5.0	79.1	11.2	<5.0	1,870
MMW-P-07	2/4/2010	<5.0	<5.0	555	12.4	<5.0	1,880
MMW-P-08	2/4/2010	<50.0	<50.0	1,140	<50.0	<50.0	4,860
MMW-P-09S	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-09D	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	111
MMW-P-10S	2/4/2010	<5.0	<5.0	45.4	<5.0	<5.0	419
MMW-P-10D	2/4/2010	<5.0	<5.0	406	<5.0	<5.0	2,130
Keramida Monitoring Wells (Off-site)							
MW-168S	NS	NS	NS	NS	NS	NS	NS
MW-168D	2/4/2010	<5.0	<5.0	6.3	<5.0	<5.0	128
Floral Park Monitoring Wells (Off-site)							
MMW-C-01	2/3/2010	<5.0	<5.0	176	10.1	<5.0	1,790
MMW-C-02	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IDEML RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEML RISC Default Residential Cleanup Level		5	5	70	100	80	2

Table 5
Historical Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Monitoring Wells (Apts)							
MMW-1S	9/10/2004	3.1 J	< 5.0	< 5.0	< 5.0	<5.0	4.1
	3/15/2005	150	10	<5.0	<5.0	<5.0	<2.0
	11/9/2005	130	8.3	<5.0	<5.0	<5.0	8.9
	9/5/2006	200	13	<5.0	<5.0	<5.0	4.6
	2/22/2007	220	14.9	<5.0	<5.0	<5.0	<2.0
	6/14/2007	240	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	362	10.5	<5.0	<5.0	31.6	<2.0
	12/13/2007	330	8.1	<5.0	<5.0	27	<2.0
	3/21/2008	280	14	<5.0	<5.0	<5.0	<2.0
	6/6/2008	277	13.2	<5.0	<5.0	<5.0	<2.0
	9/11/2008	288	14.7	<5.0	<5.0	<5.0	<2.0
	11/20/2008	223	45.5	169	<5.0	<5.0	14.5
	3/16/2009	199	11.3	<5.0	<5.0	<5.0	<2.0
	6/16/2009	237	13.4	<5.0	<5.0	<5.0	<2.0
	8/5/2009	195	22.9	71.3	<5.0	<5.0	9.3
MMW-2S	11/2/2009	189	39.0	119	<5.0	<5.0	26.6
	2/3/2010	160	49.7	59.1	<5.0	<5.0	35.4
	9/10/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	9/5/2006	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/26/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	5.2	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	28	5.4	<5.0	<5.0	<2.0
MMW-3S	9/5/2006	<5.0	23	7.4	<5.0	<5.0	<2.0
	6/2/2008	<5.0	20.2	7.9	<5.0	<5.0	2.8
	6/15/2009	<5.0	15.3	11.7	<5.0	<5.0	3
	8/25/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	980	<5.0	<5.0	200
	11/10/2005	<5.0	<5.0	850	<5.0	<5.0	240
MMW-4D	9/5/2006	<5.0	<5.0	1,100	2.3J	<5.0	220
	6/2/2008	<5.0	<5.0	515	<5.0	<5.0	32.2
	6/15/2009	<5.0	<5.0	892	7	<5.0	142
	8/24/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	3,400	13	<5.0	270
	11/10/2005	<5.0	<5.0	3,900	19	<5.0	140
MMW-5D	9/5/2006	<50	<50	2,500	<50	<5.0	170
	6/2/2008	<5.0	<5.0	1,360	19.9	<5.0	207
	6/15/2009	<5.0	<5.0	1,110	14.5	<5.0	242
	9/10/2004	<5.0	<5.0	540	<5.0	<5.0	400
	11/10/2005	<5.0	<5.0	750	<5.0	<5.0	700
	9/5/2006	<5.0	<5.0	300	<5.0	<5.0	440
MMW-6D	6/2/2008	<5.0	<5.0	65.5	<5.0	<5.0	242
	6/15/2009	<5.0	<5.0	8.6	<5.0	<5.0	111
	8/24/2004	<5.0	<5.0	28	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	8.5	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	9.5	<5.0	<5.0	<2.0
	9/5/2006	<5.0	<5.0	5.8	<5.0	<5.0	4.5
MMW-7S	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	IDEMLISC Default Industrial Cleanup Level - 2006	55	31	1,000	2,000	1,000	4
	IDEMLISC Default Residential Cleanup Level - 2006	5	5	70	100	80	2

Note:

All Values Over IDEMLISC Default Industrial Cleanup Level in **RED**

All Values Over IDEMLISC Default Residential Cleanup Level in **BLUE**

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections

"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations

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Table 5
Historical Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-8S	2/22/2007	114	<5.0	289	13.8	<5.0	40.6
	6/14/2007	15.9	<5.0	364	9.5	<5.0	82.1
	9/19/2007	<5.0	<5.0	778	24.6	<5.0	145
	12/13/2007	7.7	<5.0	1,000	7.4	<5.0	586
	3/20/2008	<5.0	<5.0	470	<5.0	<5.0	330
	6/6/2008	<5.0	<5.0	336	<5.0	<5.0	509
	9/10/2008	<5.0	<5.0	275	<5.0	<5.0	322
	11/20/2008	<5.0	<5.0	123	<5.0	<5.0	584
	3/16/2009	<5.0	<5.0	95	<5.0	<5.0	348
	6/16/2009	<5.0	<5.0	94.3	6.1	<5.0	280
	8/5/2009	<5.0	<5.0	83.8	<5.0	<5.0	261
	11/2/2009	<5.0	<5.0	58.3	<5.0	<5.0	277
	2/3/2010	7.9	<5.0	15.3	<5.0	<5.0	236
MMW-9S	2/22/2007	782	88.6	78.9	<5.0	<5.0	<2.0
	6/14/2007	858	85.7	65.3	<5.0	<5.0	<2.0
	9/20/2007	1,430	112	70.3	8.2	<5.0	<2.0
	12/12/2007	37.9 J	17.9 J	1,700	29.8 J	<50.0	<20.0
	3/21/2008	57	20	2,900	39	<5.0	16
	6/6/2008	52.9	28	1,540	38.2	<5.0	295
	9/10/2008	52.6	22.7	4,920	94.5	<5.0	167
	11/20/2008	<5.0	<5.0	5,820	90.2	<5.0	1,010
	3/16/2009	<50.0	<50.0	7,490	73.8	<50.0	1,800
	6/16/2009	44.5	24.9	4,810	64	<5.0	876
	8/5/2009	<5.0	<5.0	5,010	64.2	<5.0	1,110
	11/2/2009	<5.0	<5.0	5,410	120	<5.0	1,050
	2/3/2010	<50.0	<50.0	5,090	98.4	<50.0	1,700
MMW-10S	2/22/2007	49.6	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	77.6	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	66	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	124	56	149	<5.0	<5.0	<2.0
	3/21/2008	440	12	8.1	<5.0	<5.0	12
	6/6/2008	541	62.1	218	<5.0	<5.0	30.4
	9/10/2008	6.9	<5.0	353	8.2	<5.0	<2.0
	11/20/2008	<5.0	<5.0	212	<5.0	<5.0	15.9
	3/16/2009	<5.0	<5.0	302	<5.0	<5.0	114
	6/16/2009	22.8	15.4	415	12	<5.0	81.4
	8/5/2009	<5.0	<5.0	224	5.5	<5.0	156
	11/2/2009	12.8	10.1	239	5.6	<5.0	119
	2/3/2010	8.3	7.5	180	5.1	<5.0	148
MMW-11S	6/14/2007	<5.0	<5.0	225	6.8	<5.0	18.6
	9/19/2007	<5.0	<5.0	442	21.1	<5.0	30.1
	12/13/2007	7.2	<5.0	920	27	<5.0	49
	3/20/2008	<5.0	<5.0	420	17	<5.0	4.9
	6/5/2008	<5.0	<5.0	623	23.1	<5.0	26.7
	9/10/2008	<5.0	<5.0	327	18.3	<5.0	9.9
	11/20/2008	<5.0	<5.0	554	23.9	<5.0	18.5
	3/16/2009	<5.0	<5.0	37.6	<5.0	<5.0	<2.0
	6/16/2009	<5.0	<5.0	253	17.9	<5.0	2.8
	8/5/2009	<5.0	<5.0	80.7	5.5	<5.0	3.1
	11/2/2009	<5.0	<5.0	59.9	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	29.4	<5.0	<5.0	<2.0
MMW-11D	6/16/2009	<5.0	<5.0	25.3	6.7	<5.0	<2.0
	8/5/2009	<5.0	<5.0	485	22.6	<5.0	15.3
	11/2/2009	<5.0	<5.0	771	31.8	<5.0	18.8
	2/3/2010	<5.0	<5.0	301.00	28.20	<5.0	5.20
MMW-12S	6/16/2009	<5.0	<5.0	9.7	<5.0	<5.0	6.5
	8/5/2009	<5.0	<5.0	47.3	<5.0	<5.0	15.2
	11/2/2009	<5.0	<5.0	28.8	<5.0	<5.0	7.1
	2/3/2010	<5.0	<5.0	1140	<5.0	<5.0	2.10
MMW-13D	8/5/2009	<5.0	<5.0	672	<5.0	<5.0	59.2
	11/2/2009	<5.0	<5.0	949	<5.0	<5.0	182
	2/3/2010	<5.0	<5.0	819.00	6.20	<5.0	260.00
MMW-13D Low	6/16/2009	<5.0	<5.0	613	10.4	<5.0	17.3
MMW-13D Medium (29')	6/16/2009	<5.0	<5.0	578	12.1	<5.0	14.9
MMW-13D High (17')	6/16/2009	<5.0	<5.0	597	9.7	<5.0	21.1
MMW-14D	6/16/2009	<5.0	<5.0	648	15.6	<5.0	57.6
	8/5/2009	<5.0	<5.0	589	10.9	<5.0	79.1
	11/2/2009	<5.0	<5.0	541	9.2	<5.0	83.8
	2/3/2010	<5.0	<5.0	871.00	13.90	<5.0	84.90
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2

Note:

All Values Over IDEM RISC Default Industrial Cleanup Level in **RED**

All Values Over IDEM RISC Default Residential Cleanup Level in **BLUE**

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

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Table 5
Historical Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Monitoring Wells (Plaza)							
MMW-P-01	11/9/2005	33	210	160	9.6	<5.0	76
	2/22/2007	85.2	356	274	16.7	<5.0	28.7
	6/14/2007	111	368	350	10	<5.0	79.6
	9/20/2007	206	322	300	11.5	<5.0	127
	12/14/2007	230	320	240	7.1	<5.0	87
	3/21/2008	120	170	3,100	25	<5.0	42
	6/5/2008	22	31.5	3,660	68.6	<5.0	123
	9/11/2008	14.2	15.1	1,690	<5.0	<5.0	87.7
	11/19/2008	<5.0	<5.0	4,320	<5.0	<5.0	116
	3/17/2009	17.5	22.6	12,300	143	<5.0	3,290
	6/17/2009	<50.0	<50.0	4,020	63.9	<50.0	1,840
	8/6/2009	97.4	37.0	12,200	<50.0	<50.0	3,730
	11/3/2009	103	58.3	9,330	<50.0	<50.0	4,770
	2/4/2010	104	60.6	9,190	130	<50.0	13,600
MMW-P-02	11/8/2005	24	<5.0	87	7.3	<5.0	49
	2/22/2007	184	<5.0	39.4	<5.0	<5.0	27.4
	6/14/2007	17.1	<5.0	35	<5.0	<5.0	27.5
	9/19/2007	13.3	<5.0	66.3	5.6	<5.0	50.1
	12/13/2007	7.8	<5.0	69	<5.0	<5.0	53
	3/20/2008	19	<5.0	67	<5.0	<5.0	42
	6/5/2008	94.9	<5.0	44	<5.0	<5.0	46.4
	9/11/2008	17.5	<5.0	46.6	<5.0	<5.0	42
	11/19/2008	10.7	<5.0	75.4	<5.0	<5.0	69.5
	3/17/2009	23.4	<5.0	65.4	5.3	<5.0	68.4
	6/17/2009	5.1	<5.0	54.2	9.2	<5.0	80.6
	8/6/2009	5.1	<5.0	55.8	<5.0	<5.0	56.2
	11/3/2009	11.1	<5.0	60.1	<5.0	<5.0	73.9
	2/4/2010	7.4	<5.0	75.8	5.8	<5.0	104
MMW-P-03S	11/9/2005	110	<5.0	97	9.6	<5.0	<2.0
	2/22/2007	397	<5.0	105	10	<5.0	<2.0
	6/14/2007	256	<5.0	96.4	9.2	<5.0	9.3
	9/20/2007	144	<5.0	131	15.8	<5.0	16
	12/13/2007	67	<5.0	88	5.3	<5.0	15
	3/20/2008	130	<5.0	84	7.3	<5.0	10
	6/5/2008	19.4	<5.0	380	14.9	<5.0	10.6
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	6	494	<5.0	<5.0	40.8
	3/17/2009	7.5	<5.0	904	38.7	<5.0	283
	6/17/2009	<5.0	<5.0	332	22.3	<5.0	759
	8/6/2009	30.6	8.2	573	25	<5.0	843
	11/3/2009	<5.0	<5.0	141	16.1	<5.0	379
	2/4/2010	<5.0	<5.0	155	19.4	<5.0	382
MMW-P-03D	11/9/2005	22	<5.0	42	<5.0	<5.0	2
	2/22/2007	48.9	<5.0	57.8	<5.0	39	15.6
	6/14/2007	21.7	<5.0	74.9	<5.0	<5.0	34.5
	9/19/2007	14.3	<5.0	76.1	7.3	<5.0	36.6
	12/13/2007	11	<5.0	40	<5.0	<5.0	20
	3/20/2008	<5.0	<5.0	170	6	<5.0	18
	6/5/2008	<5.0	<5.0	150	7.4	<5.0	26
	9/11/2008	<5.0	<5.0	95.7	6.4	<5.0	<2
	11/19/2008	<5.0	<5.0	80.6	<5.0	<5.0	36.9
	3/17/2009	<5.0	<5.0	65.2	<5.0	<5.0	69.8
	6/17/2009	<5.0	<5.0	14.9	5.9	<5.0	137
	8/6/2009	<5.0	<5.0	16.7	<5.0	<5.0	248
	11/3/2009	<5.0	<5.0	8.5	<5.0	<5.0	168
	2/4/2010	<5.0	<5.0	<5.0	<5.0	<5.0	287
MMW-P-04	11/9/2005	180	<5.0	<5.0	<5.0	<5.0	<2.0
	2/22/2007	315	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	268	<5.0	<5.0	<5.0	<5.0	<2.0
	9/20/2007	214	<5.0	<5.0	<5.0	<5.0	<2.0
	12/13/2007	62	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	120	<5.0	<5.0	<5.0	<5.0	<2.0
	6/6/2008	154	6	59.7	<5.0	<5.0	<2.0
	9/11/2008	31.9	<5.0	360	7.1	<5.0	<2.0
	11/19/2008	45	<5.0	248	<5.0	<5.0	<2.0
	3/18/2009	19.4	5.4	304	10.8	<5.0	<2.0
	6/17/2009	35.3	5.4	827	22	<5.0	2
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/5/2009	<5.0	<5.0	1190	36.9	<5.0	90.9
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2

Note:

All Values Over IDEM RISC Default Industrial Cleanup Level in **RED**

All Values Over IDEM RISC Default Residential Cleanup Level in **BLUE**

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Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-P-05	11/8/2005	<5.0	<5.0	6.2	<5.0	<5.0	<2.0
	2/22/2007	23.7	<5.0	9.1	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	12/14/2007	<5.0	<5.0	14.8	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	8.1	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	15.6	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	16.7	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	22.1	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	13.7	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	10.9	6.6	<5.0	<2.0
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	7.6	<5.0	<5.0	2.7
	2/4/2010	<5.0	<5.0	6.8	<5.0	<5.0	<2.0
	11/8/2005	<5.0	<5.0	200	24	<5.0	21
MMW-P-06	2/22/2007	<5.0	<5.0	158	19.2	<5.0	<2.0
	6/14/2007	<5.0	<5.0	214	22.7	<5.0	13.3
	9/19/2007	<5.0	<5.0	283	38.2	<5.0	26.1
	12/14/2007	<5.0	<5.0	260	40	<5.0	31
	3/20/2008	<5.0	<5.0	250	31	<5.0	26
	6/5/2008	<5.0	<5.0	265	30.9	<5.0	40.1
	9/11/2008	<5.0	<5.0	271	33.3	<5.0	<2.0
	11/19/2008	<5.0	<5.0	292	<5.0	<5.0	61.4
	3/17/2009	<5.0	<5.0	292	35.3	<5.0	<2.0
	6/17/2009	<5.0	<5.0	145	22.2	<5.0	90.6
	8/6/2009	<5.0	<5.0	136	14.3	<5.0	301
	11/3/2009	<5.0	<5.0	107	15.2	<5.0	292
	2/4/2010	<5.0	<5.0	79.1	11.2	<5.0	1,870
	2/22/2007	3,060	81.5	82	8.8	<5.0	<2.0
	6/14/2007	2,850	90	82.5	<50.0	<50.0	<20.0
MMW-P-07	9/20/2007	5,200	109	121	16.1	<5.0	2
	12/13/2007	1,440	157	930	8.8	7.4	80
	3/21/2008	31	7.6	1,700	27	<5.0	110
	6/5/2008	<5.0	<5.0	938	15.6	<5.0	466
	9/11/2008	<5.0	<5.0	1,870	55.2	<5.0	1,620
	11/19/2008	<5.0	<5.0	797	<5.0	<5.0	749
	3/17/2009	<5.0	<5.0	361	17.7	<5.0	1,830
	6/17/2009	<5.0	<5.0	87.1	9.4	<5.0	1,130
	8/6/2009	<5.0	<5.0	48.7	<5.0	<5.0	787
	11/3/2009	<5.0	<5.0	809	14.1	<5.0	1,510
	2/4/2010	<5.0	<5.0	555	12.4	<5.0	1,880
	2/22/2007	6,280	281	240	26.7	<5.0	<2.0
	6/14/2007	6,440	310	169	<50.0	<50.0	<20.0
	9/20/2007	9,780	494	201	25.3	<5.0	6.5
	12/14/2007	390	210	5,800	<50.0	<50.0	<20.0
MMW-P-08	3/21/2008	6.7	11	6,500	130	<5.0	55
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	562
	9/11/2008	5.8	5	18,300	686	<50.0	4,740
	11/19/2008	<50.0	<50.0	5,690	91.4	<50.0	13,000
	3/17/2009	<5.0	<5.0	1,130	47.1	<5.0	5,680
	6/17/2009	<125	<125	356	145	<5.0	7,200
	8/6/2009	<125	<125	601	<50.	<50.	8,960
	11/3/2009	<50.0	<50.0	86.7	<50.0	<50.0	2,860
	2/4/2010	<50.0	<50.0	1,140	<50.0	<50.0	4,860
	2/22/2007	10.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-09S	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/22/2007	55	31	1,000	2,000	1,000	4
	6/14/2007	5	5	70	100	80	2
	9/19/2007						
	12/12/2007						
	3/20/2008						
	6/5/2008						
	9/11/2008						
	11/19/2008						
	3/17/2009						
	6/16/2009						
	8/6/2009						
	11/3/2009						
	2/3/2010						

Note:

All Values Over IDEM RISC Default Industrial Cleanup Level in RED

All Values Over IDEM RISC Default Residential Cleanup Level in BLUE

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections

"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations

"." indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error

Table 5
Historical Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-P-09D	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	46.2
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	83.1
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	71
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	100
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	97.2
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	85.1
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	73.5
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	80.8
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	87.1
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	111
MMW-P-10S	6/14/2007	36.1	36.3	61.6	6.9	<5.0	<2.0
	7/6/2007	87.9	54.9	92.1	10.2	<5.0	<2.0
	9/19/2007	192	82.6	126	14.4	<5.0	<2.0
	12/14/2007	71	<5.0	<5.0	<5.0	<5.0	2.4
	3/20/2008	26.8	19.2	250	12.2	<5.0	<2.0
	6/5/2008	15	9.7	537	16	<5.0	114
	9/11/2008	74.8	36.5	1,650	74	<5.0	27.7
	11/19/2008	78.6	28	1,510	<5.0	<5.0	22.3
	3/17/2009	11.9	8.6	1,160	71.5	<5.0	<2.0
	6/17/2009	<5.0	<5.0	331	20.5	<5.0	63.9
	8/6/2009	<5.0	<5.0	158	16.1	<5.0	395
	11/3/2009	<5.0	<5.0	29.6	<5.0	<5.0	288
	2/4/2010	<5.0	<5.0	45.4	<5.0	<5.0	419
MMW-P-10D	6/14/2007	<5.0	10.6	481	7.7	<5.0	98.7
	7/6/2007	<5.0	<5.0	498	9	<5.0	118
	9/19/2007	<5.0	<5.0	350	<5.0	<5.0	76.1
	12/14/2007	<5.0	<5.0	270	<5.0	<5.0	77
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3
	6/5/2008	<5.0	<5.0	508	<5.0	<5.0	267
	9/11/2008	<5.0	<5.0	435	<5.0	<5.0	288
	11/19/2008	<5.0	<5.0	3,390	<5.0	<5.0	5,030
	3/17/2009	<5.0	<5.0	4,860	12.9	<5.0	2,500
	6/17/2009	<5.0	<5.0	3,710	9.6	<5.0	9,070
	8/6/2009	<5.0	<5.0	2,520	5.1	<5.0	3,400
	11/3/2009	<5.0	<5.0	2,740	<5.0	<5.0	3,500
	2/4/2010	<5.0	<5.0	406	<5.0	<5.0	2,130
Keramida Monitoring Wells (Off-site)							
MW-167S	11/7/2005	<5.0	<5.0	<5.0	<5.0	<5.0	14
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-167D	11/7/2005	<5.0	<5.0	750	<5.0		110
	6/5/2008	<5.0	<5.0	616	28	<5.0	43.8
	6/17/2009	<5.0	<5.0	612	22.1	<5.0	23.8
MW-168S	11/7/2005	280	16	53	<5.0	<5.0	3
	2/21/2007	30.1	8.8	155	<5.0	<5.0	29.6
	6/14/2007	<5.0	<5.0	40.8	<5.0	<5.0	34
	9/19/2007	32.6	8	82.4	<5.0	<5.0	3.5
	12/13/2007	52	14	78	<5.0	<5.0	4.1
	3/20/2008	92	12	46	<5.0	<5.0	4.2
	6/5/2008	80.4	10.1	41.1	<5.0	<5.0	3.6
	9/11/2008	68.5	10.8	66.9	<5.0	<5.0	5.5
MW-168D	8/7/2009	62.6	10.2	118	<5.0	NS	9.9
	11/7/2005	<5.0	<5.0	6.8	<5.0	<5.0	49
	2/21/2007	<5.0	<5.0	8.4	<5.0	<5.0	58.1
	6/14/2007	<5.0	<5.0	5.2	<5.0	<5.0	47.5
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	89.7
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	74
	3/20/2008	<5.0	<5.0	8	<5.0	<5.0	39
	6/5/2008	<5.0	<5.0	13.4	<5.0	<5.0	65.9
	9/11/2008	<5.0	<5.0	5.5	<5.0	<5.0	<2
	3/17/2009	<5.0	<5.0	16.5	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	14.5
	8/7/2009	<5.0	<5.0	<5.0	<5.0	<5.0	36.2
	11/4/2009	<5.0	<5.0	<5.0	<5.0	<5.0	99.1
	2/4/2010	<5.0	<5.0	6.3	<5.0	<5.0	128
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2

Note:

All Values Over IDEM RISC Default Industrial Cleanup Level in **RED**

All Values Over IDEM RISC Default Residential Cleanup Level in **BLUE**

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections

"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations

"N" indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error

Table 5
Historical Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-169S	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-169D	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	5.1
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	14.3
MW-170S	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	5.5
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-170D	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	230
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	174
MW-171S	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-171D	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	2.2
Floral Park Cemetery Wells (Off-site)							
MMW-C-01	11/20/2008	15.7	8.3	296	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	508	7.3	<5.0	<2.0
	6/18/2009	23.2	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	84.8	<5.0	66.9	<5.0	<5.0	35.2
	11/3/2009	12.6	<5.0	211	8.9	<5.0	2,720
	2/3/2010	<5.0	<5.0	176	10.1	<5.0	1,790
MMW-C-02	11/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2

Note:

All Values Over IDEM RISC Default Industrial Cleanup Level in **RED**

All Values Over IDEM RISC Default Residential Cleanup Level in **BLUE**

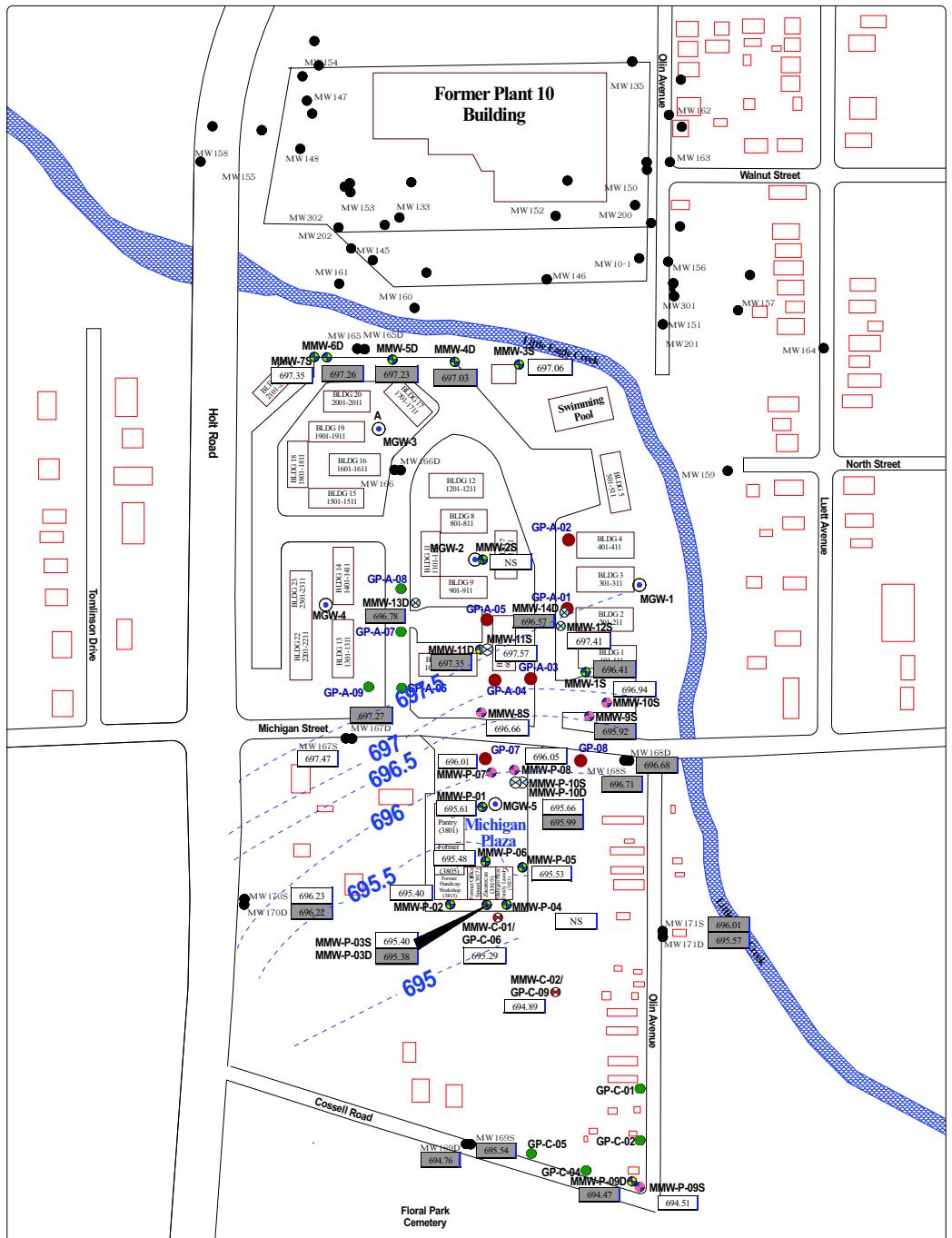
PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections

"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations

"." indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error

FIGURES



LEGEND

- Fence
 MW 160
 SS-P-01
 GP-07
 MMW-P-06
 GP-C-05
 MMW-P-07
 MMW-P-09D
 MMW-P-09B
 MMW-C-01/
 GP-C-06
 MMW-11S
 697.03
 699
- Keramida Monitoring Wells
 MUNDELL Sewer Sampling Locations (September & November 2005)
 MUNDELL Soil Boring Locations (September 2005)
 MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
 MUNDELL Soil Boring Locations (January 2007)
 MUNDELL Monitoring Wells (January 2007)
 MUNDELL Monitoring Wells (May-June 2007)
 MUNDELL Monitoring Wells (August 2008)
 MUNDELL Monitoring Wells (September 2008)
 Water Level as Measured on February 3, 2010 (gray boxes indicate groundwater elevation values not used for the creation of the Potentiometric Surface Map)
 Potentiometric Surface Equal Potential Lines



SCALE
feet
0 200

Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.
Project No. 2829
March 13, 2002

MUNDELL & ASSOCIATES, INC.

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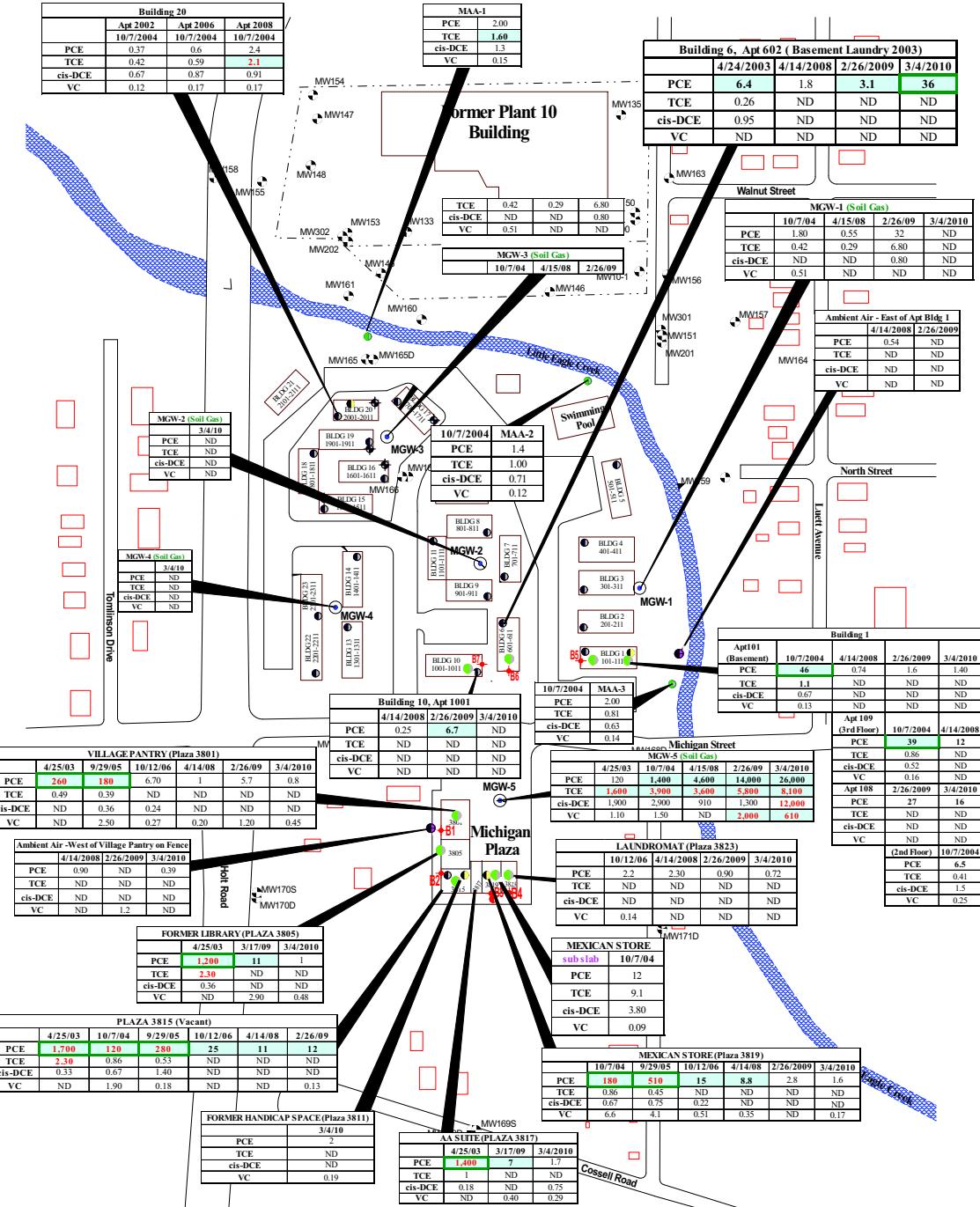
110 South Downey Avenue
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

Project Number:
M01046
Drawing File:
Base Map.SKF
Date Prepared:
2/12/10
Scale:
1"-200'±

Shallow Potentiometric Surface Map
February 3rd, 2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE

1



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110 South Downey Avenue
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317-630-9060, fax 317-630-9065

Project Number: M01046
Drawing File: Base.MSKF
Date Prepared: 4/25/2010
Scale: 1"=200'

Recent & Historical Air Analytical Results
Michigan Apartments & Michigan Plaza
3800-3823 West Michigan Avenue
Indianapolis, Indiana

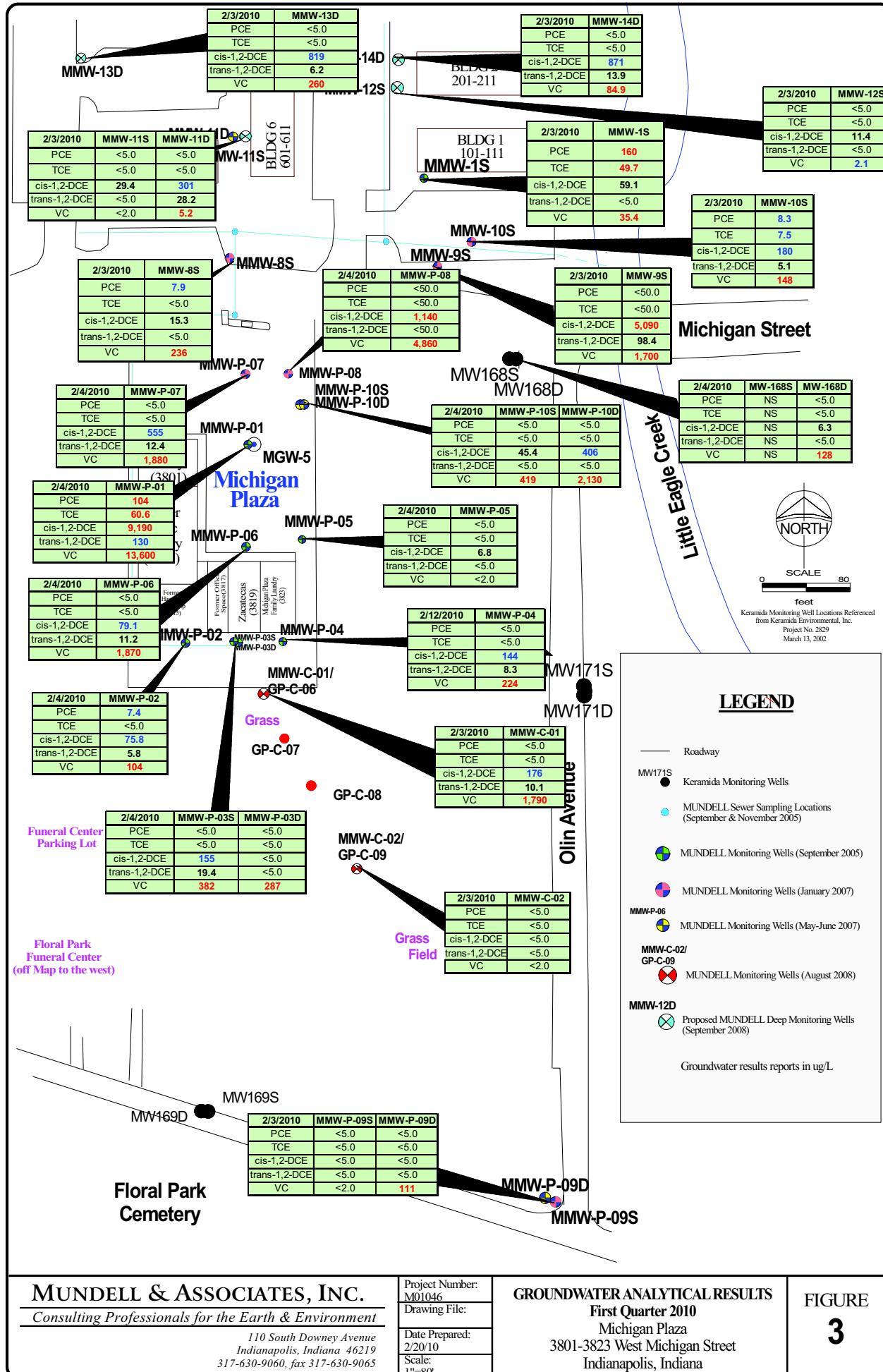


Sample Location	
PCE	Tetrachloroethene ($\mu\text{g}/\text{m}^3$)
TCE	Trichloroethene ($\mu\text{g}/\text{m}^3$)
cis-DCE	cis-1,2-Dichloroethene ($\mu\text{g}/\text{m}^3$)
VC	Vinyl chloride ($\mu\text{g}/\text{m}^3$)

Note: ND = Not Detected

Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.
Project No. 2829
March 13, 2002

FIGURE
2



MUNDELL & ASSOCIATES, INC.

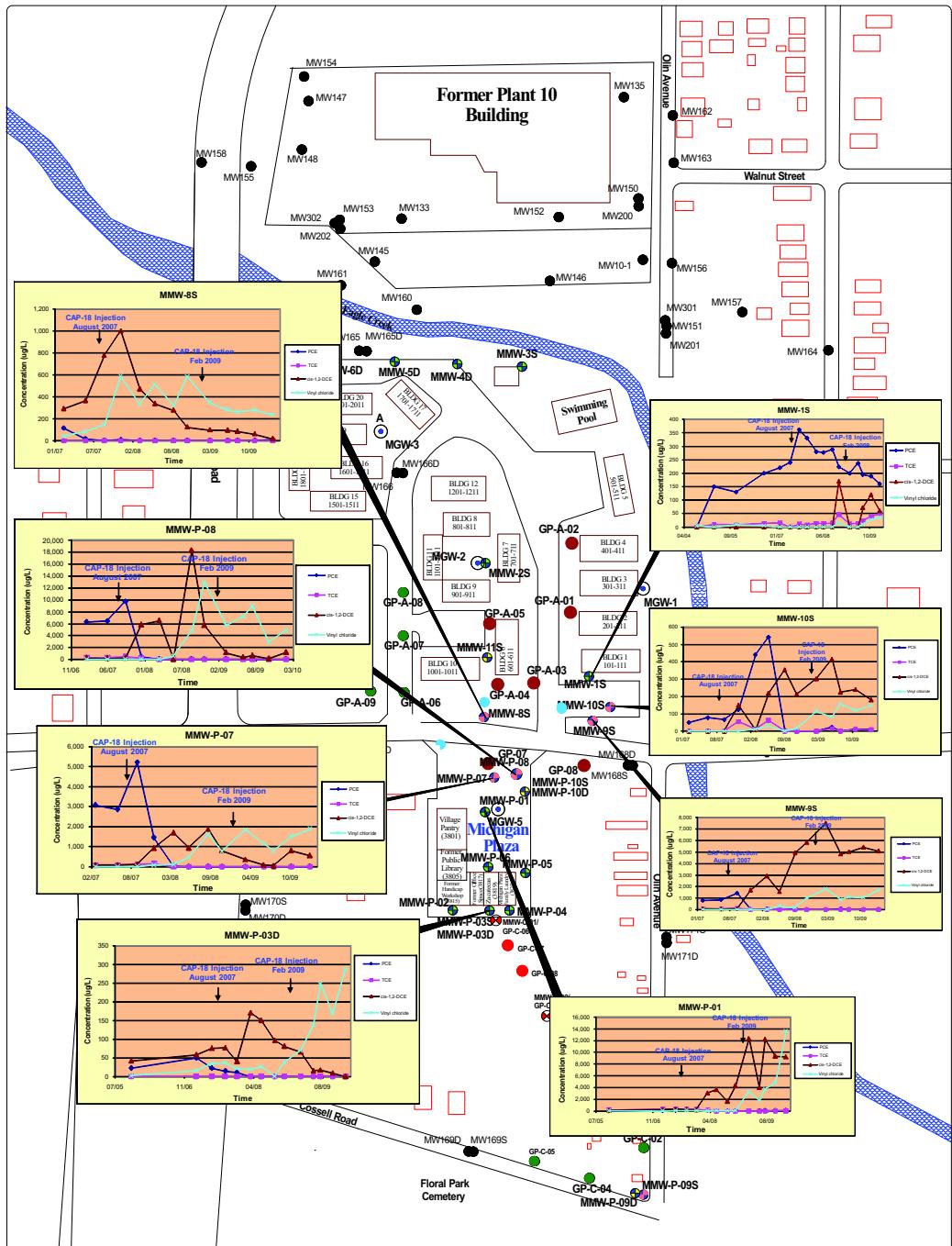
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Indianapolis, Indiana 46219
317-630-9060, fax 317-630-9065*

Project Number	M01046
Drawing File:	
Date Prepared:	2/20/10
Scale:	1"=80'

GROUNDWATER ANALYTICAL RESULTS
First Quarter 2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE 3



LEGEND

- Mundell Test Pit (TP-3) Sampling Locations (April 2005)
 - Sewer Excavation Sampling Locations (October 2007)
 - Fence
 - Sewer Line
 - MMW-11S** ● MUNDELL Monitoring Wells (May-June 2007)
 - MW160 ● Keramida Monitoring Wells
 - SS-P-01** ● MUNDELL Sewer Sampling Locations/manholes (September & November 2005)
 - GP-07 ● MUNDELL Soil Boring Locations (September 2005)
 - MMW-P-06** ● MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
 - GP-C-04** ● MUNDELL Soil Boring Locations (January 2007)
 - MMW-P-07** ● MUNDELL Monitoring Wells (January 2007)
 - MMW-C-01** ● MUNDELL Monitoring Wells (July/August 2008)
 - GP-C-06** ● MUNDELL Soil Boring Locations (July/August 2008)

Keramida Monitoring Well Locations Referenced
from Keramida Environmental, Inc.
Project No. 2829

Project No. 2829

Project No. 2829
March 13, 2002

March 15, 2002

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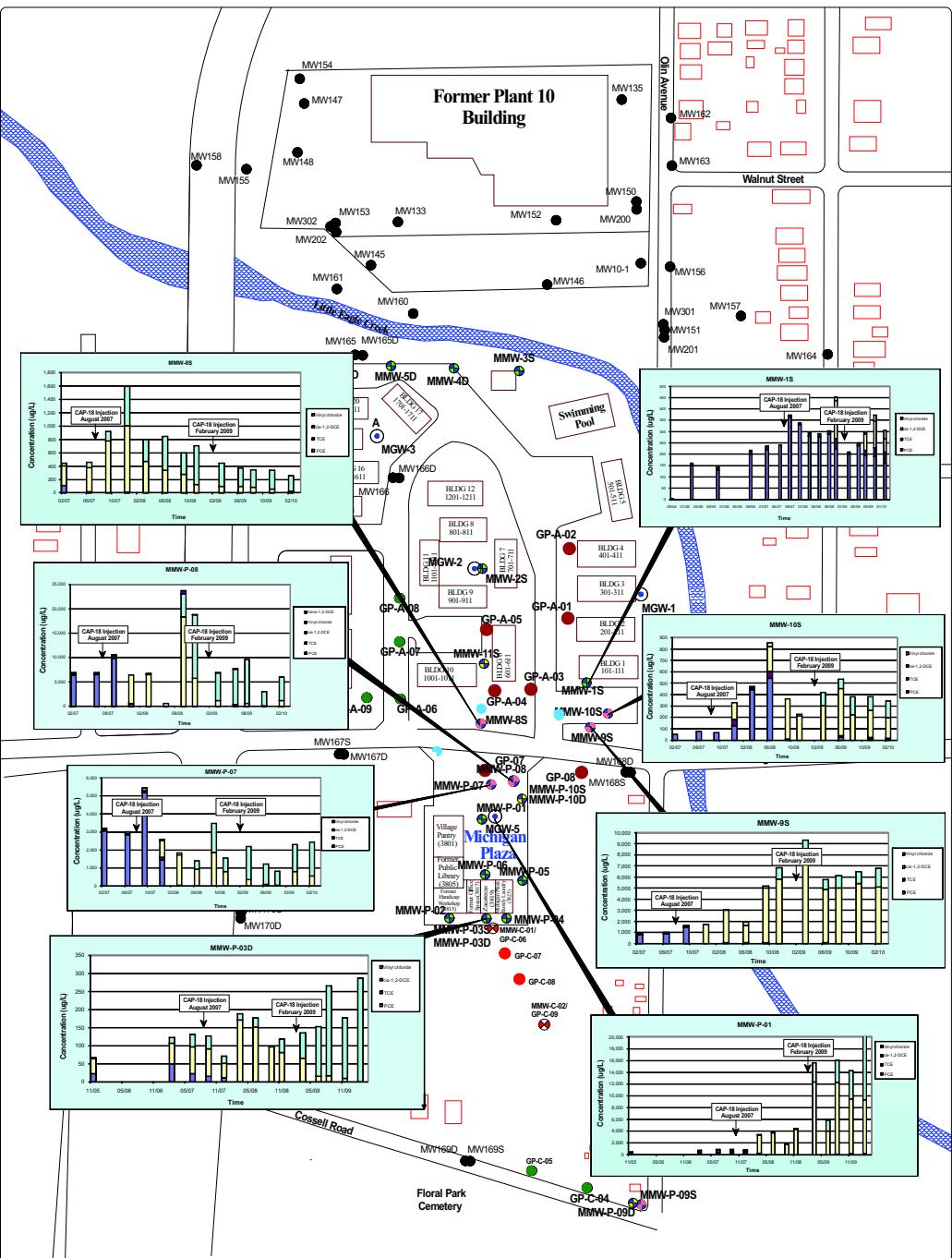
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Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065*

Project Number:
M01046
Drawing File:
Base Map.SKF
Date Prepared:
4/10/2010
Scale:

Indicator Compound Trends in Groundwater
First Quarter 2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE 4



LEGEND

- Mundell Test Pit (TP-3) Sampling Locations (April 2005)
- Sewer Excavation Sampling Locations (October 2007)
- Fence
- Sewer Line
- MWW-11S ● MUNDELL Monitoring Wells (May-June 2007)
- MW160 ● Keramida Monitoring Wells
- SS-P-01 ● MUNDELL Sewer Sampling Locations/manholes (September & November 2005)
- GP-07 ● MUNDELL Soil Boring Locations (September 2005)
- MWW-P-06 ● MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
- GP-C-04 ● MUNDELL Soil Boring Locations (January 2007)
- MWW-P-07 ● MUNDELL Monitoring Wells (January 2007)
- MWW-C-01 MUNDELL Monitoring Wells (July/August 2008)
- GP-C-06 MUNDELL Soil Boring Locations (July/August 2008)



Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.

Project No. 2829
March 13, 2002

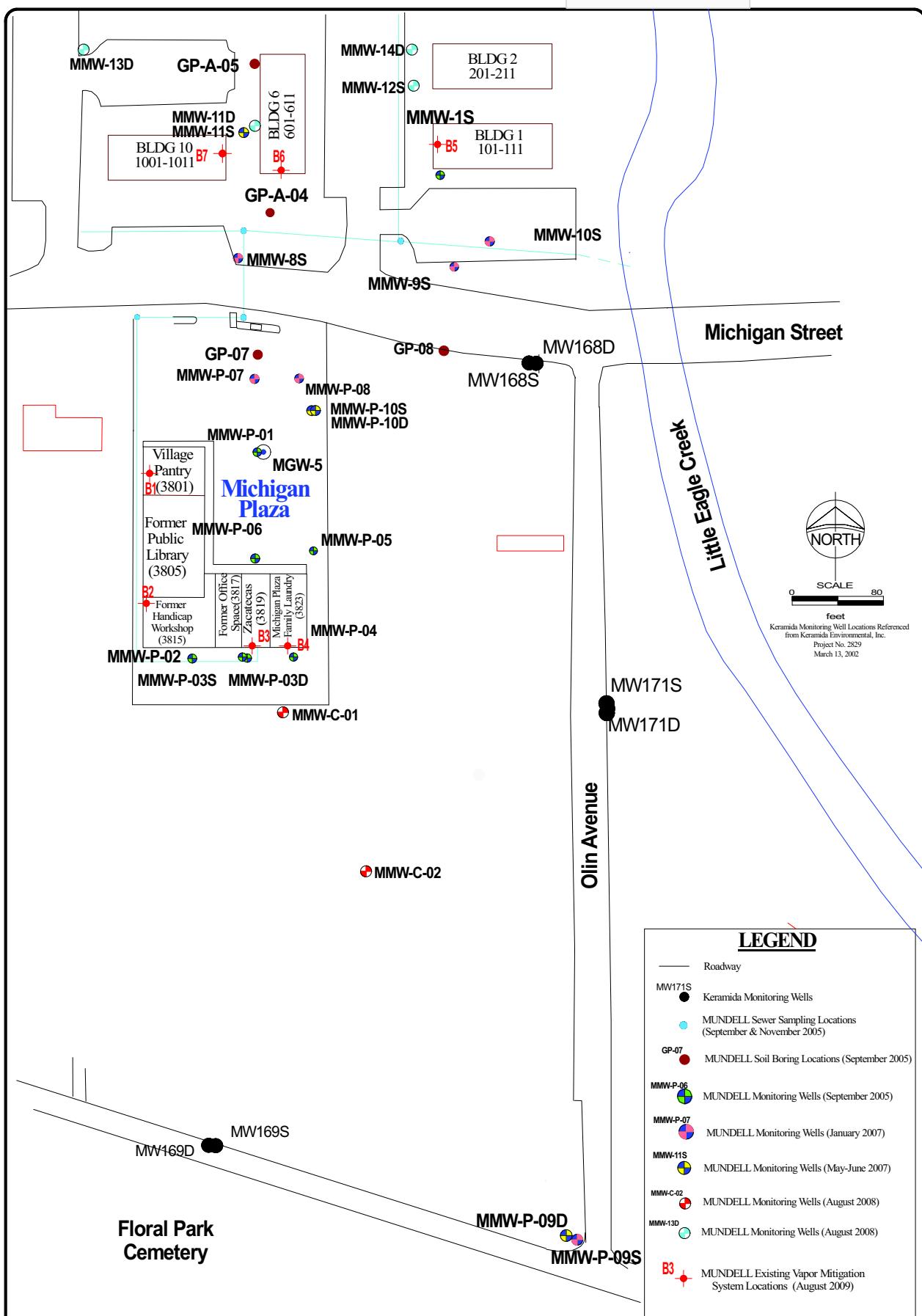
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Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

Project Number:
M01046
Drawing File:
Base Map.SKF
Date Prepared:
4/22/2010
Scale:

Parent and Daughter Products Distribution in Groundwater
First Quarter 2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE
5



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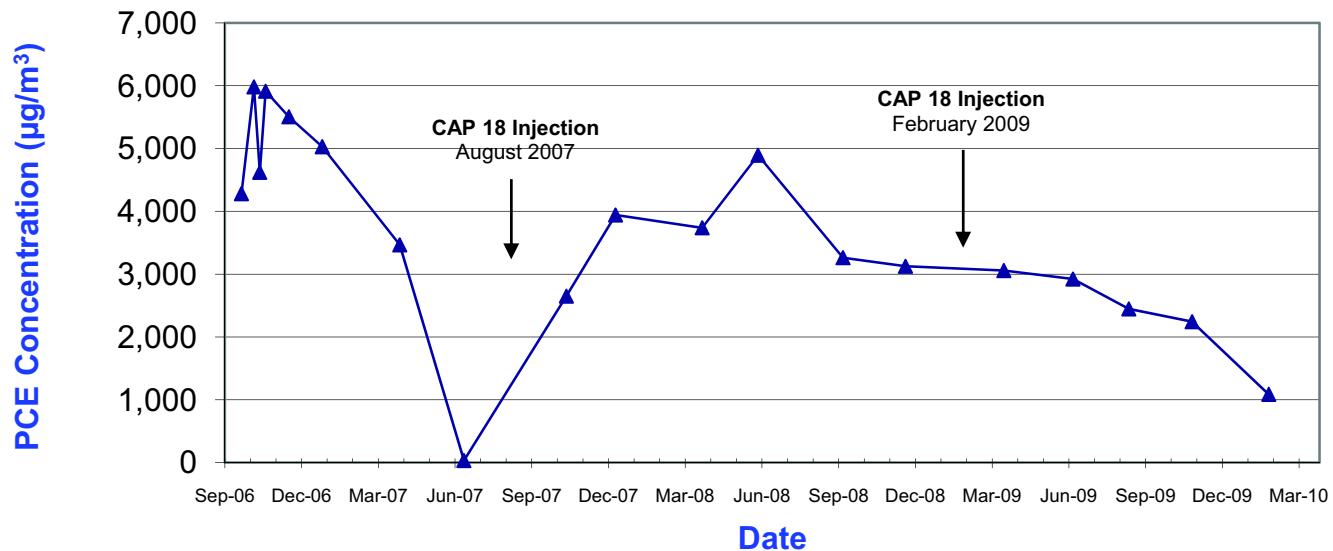
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Drawing File:

Date Prepared:
6/2/2009
Scale:
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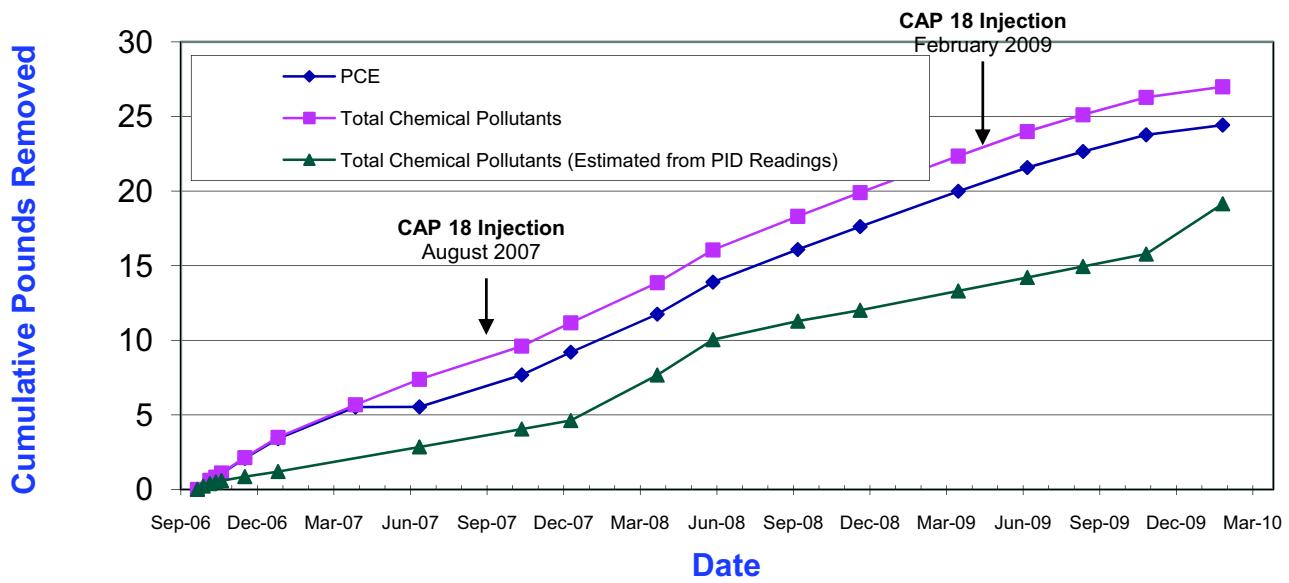
Vapor Mitigation System Locations
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE
6

**PCE Vapor Concentrations Trend -
Village Pantry Vapor Mitigation System (B1)**



**Chemical Pounds Removed -
Village Pantry Vapor Mitigation System (B1)**



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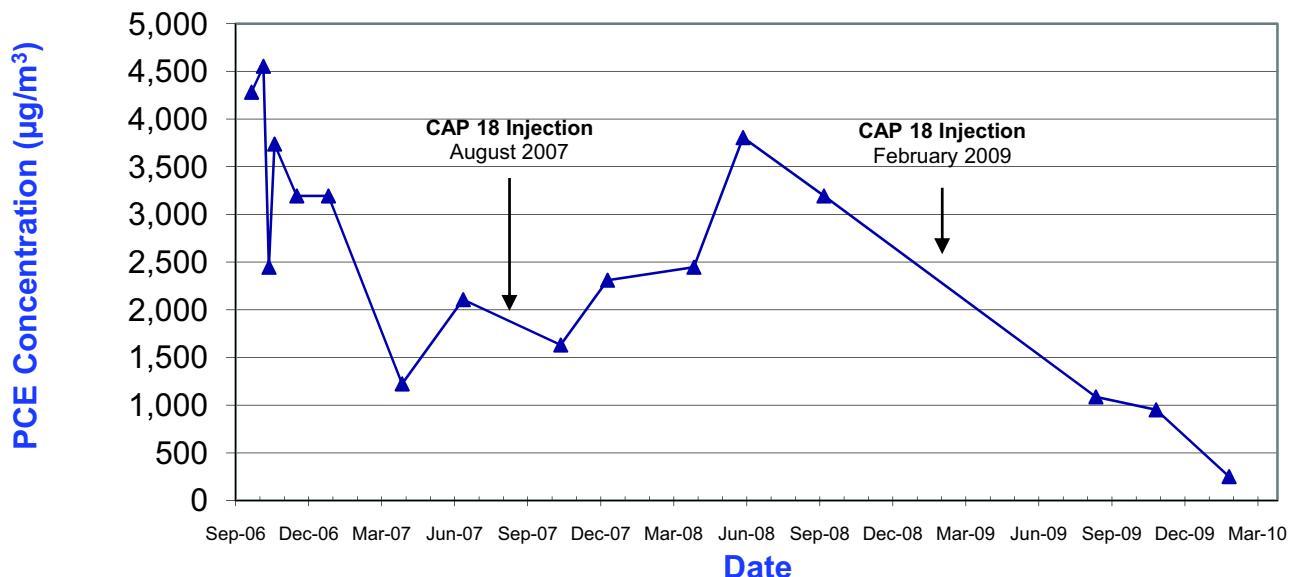
Project Number:
M01046
File:
MI Meadows charts
Date Prepared:
4/16/2010
Scale:
no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-1 (Village Pantry)
First Quarter 2010
Michigan Plaza
3801-3823 West Michigan Avenue
Indianapolis, IN

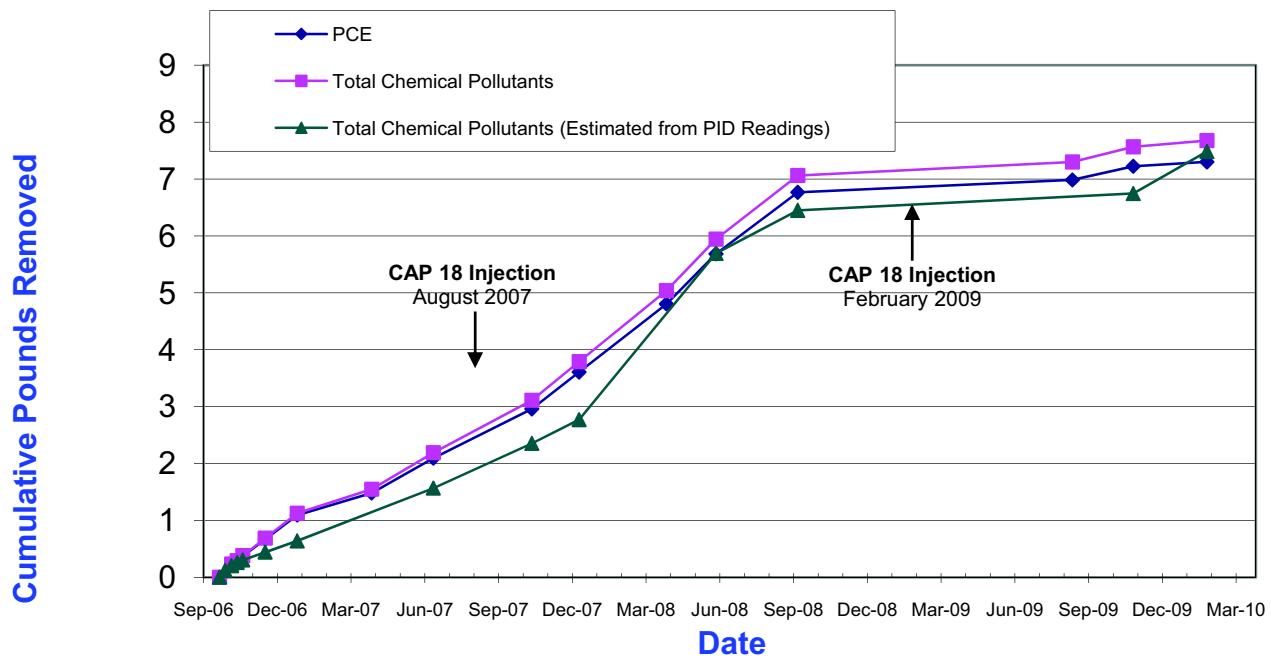
FIGURE

7

**PCE Vapor Concentrations Trend -
Handicap Space Vapor Mitigation System (B2)**



**Chemical Pounds Removed -
Handicap Space Vapor Mitigation System (B2)**



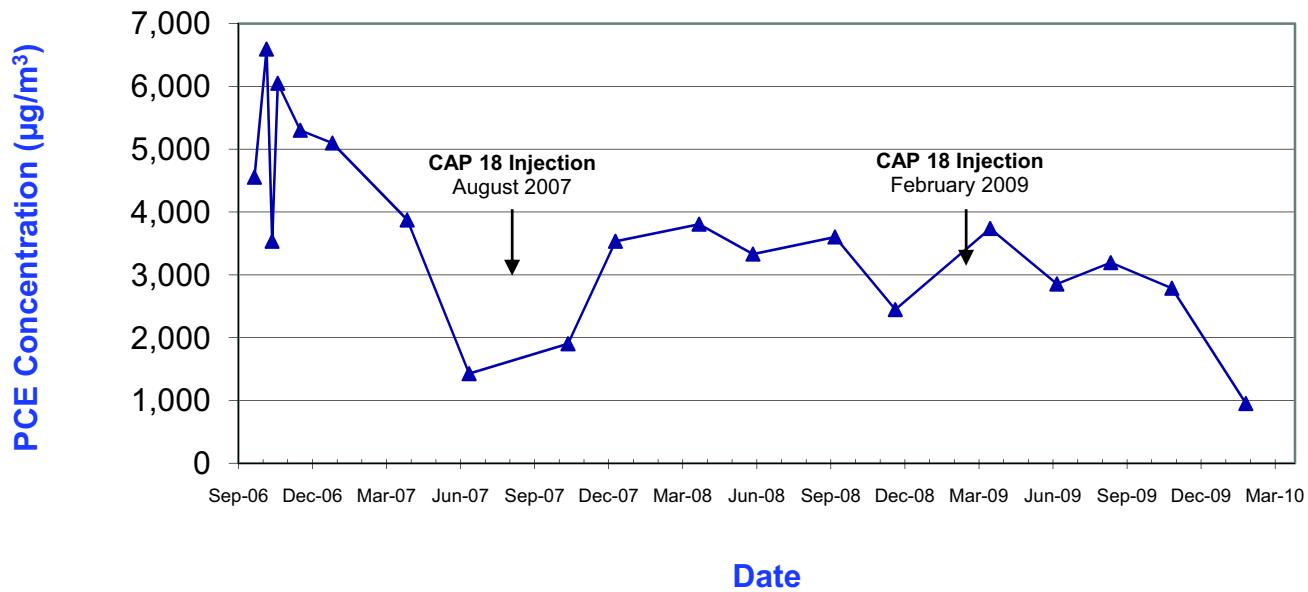
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Indianapolis, Indiana 46219
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Project Number:
M01046
File:
MI Meadows charts
Date Prepared:
4/16/2010
Scale:
no scale

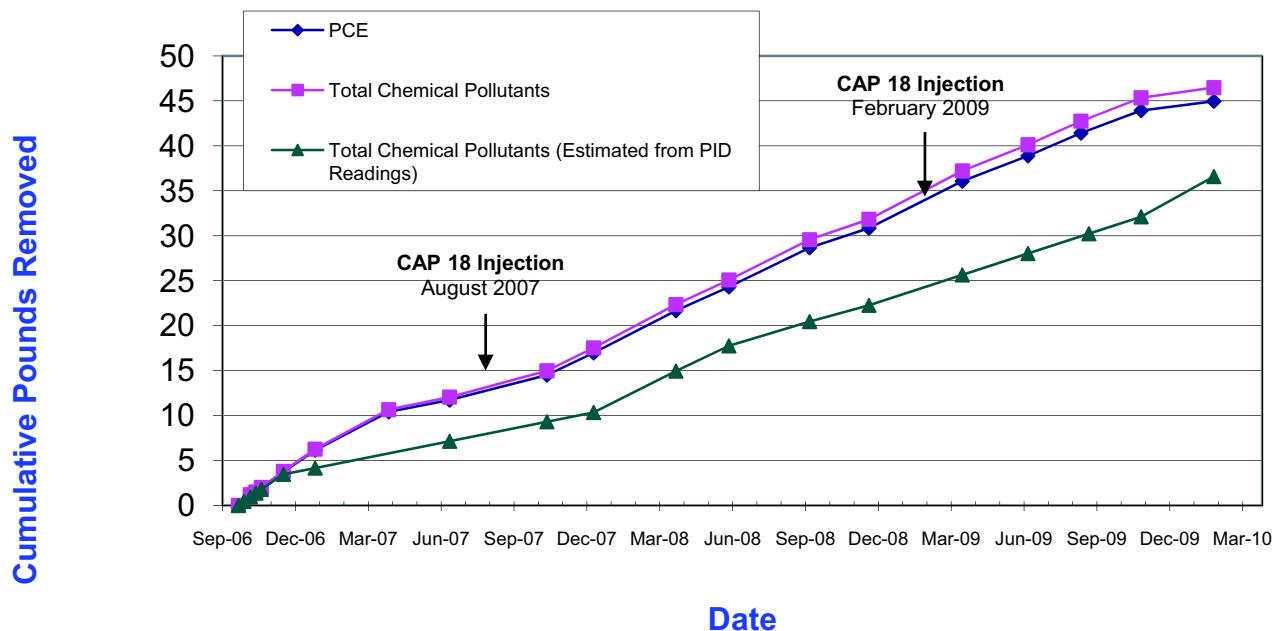
PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-2 (Handicap Space)
First Quarter 2010
Michigan Plaza
3801-3823 West Michigan Avenue
Indianapolis, IN

FIGURE
8

**PCE Vapor Concentrations Trend -
Mexican Store Vapor Mitigation System (B3)**



**Chemical Pounds Removed -
Mexican Store Vapor Mitigation System (B3)**



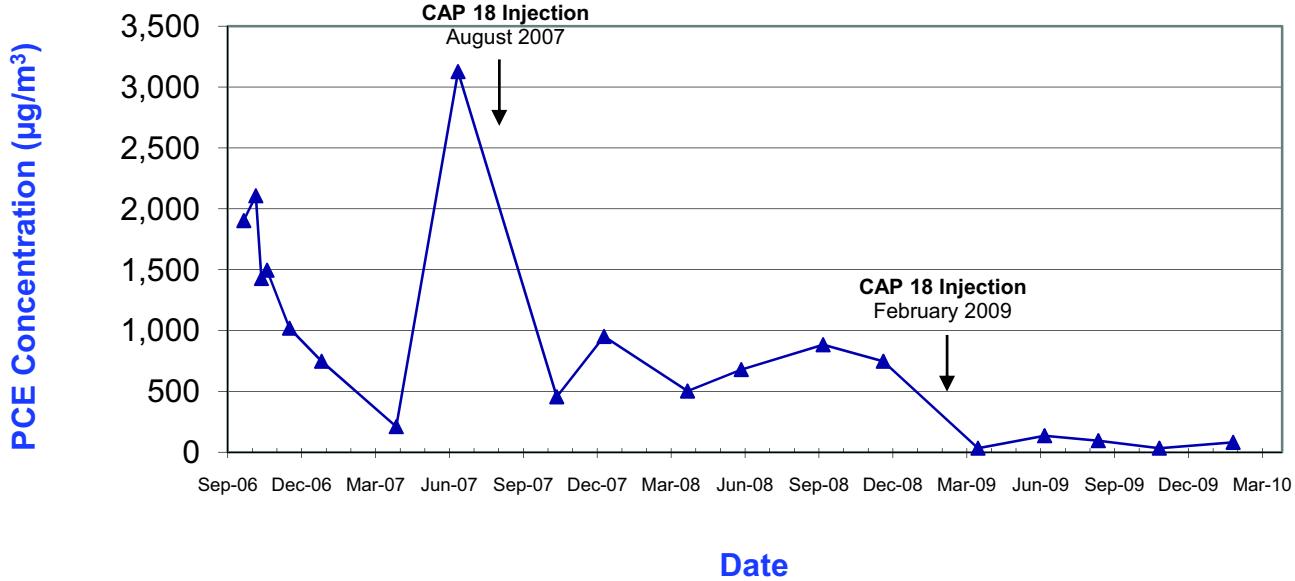
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110 South Downey Avenue
Indianapolis, Indiana 46219
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Project Number:
M01046
File:
MI Meadows charts
Date Prepared:
4/16/2010
Scale:
no scale

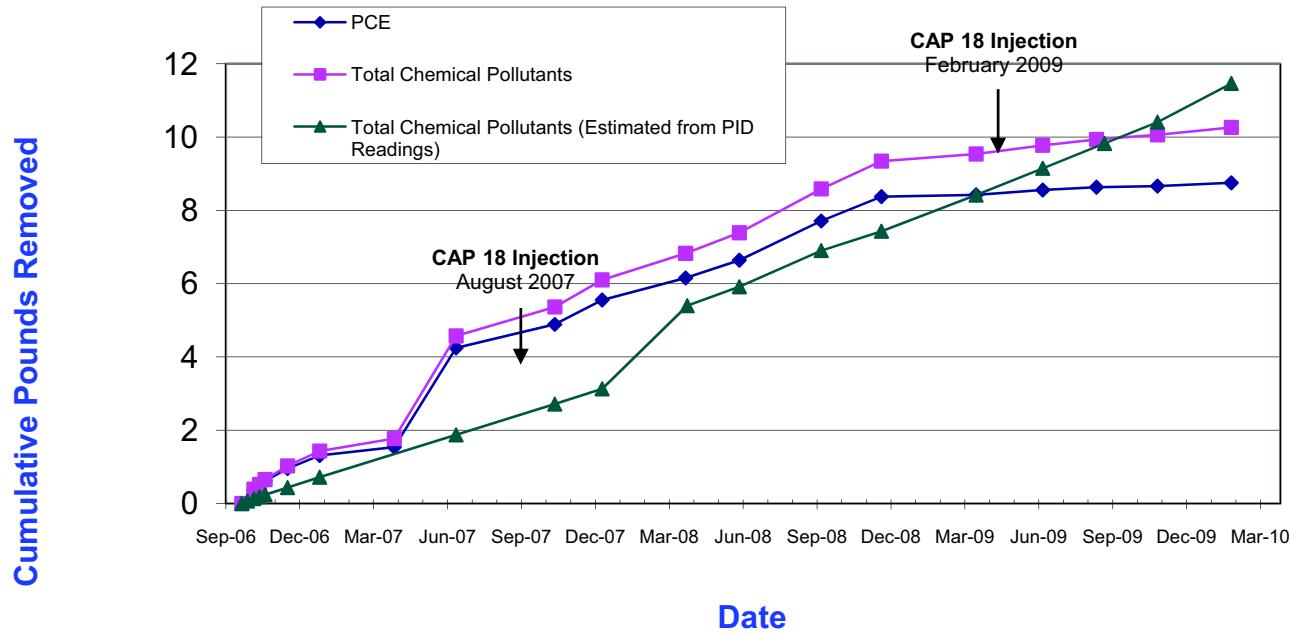
PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-3 (Mexican Store)
First Quarter 2010
Michigan Plaza
3801-3823 West Michigan Avenue
Indianapolis, IN

FIGURE
9

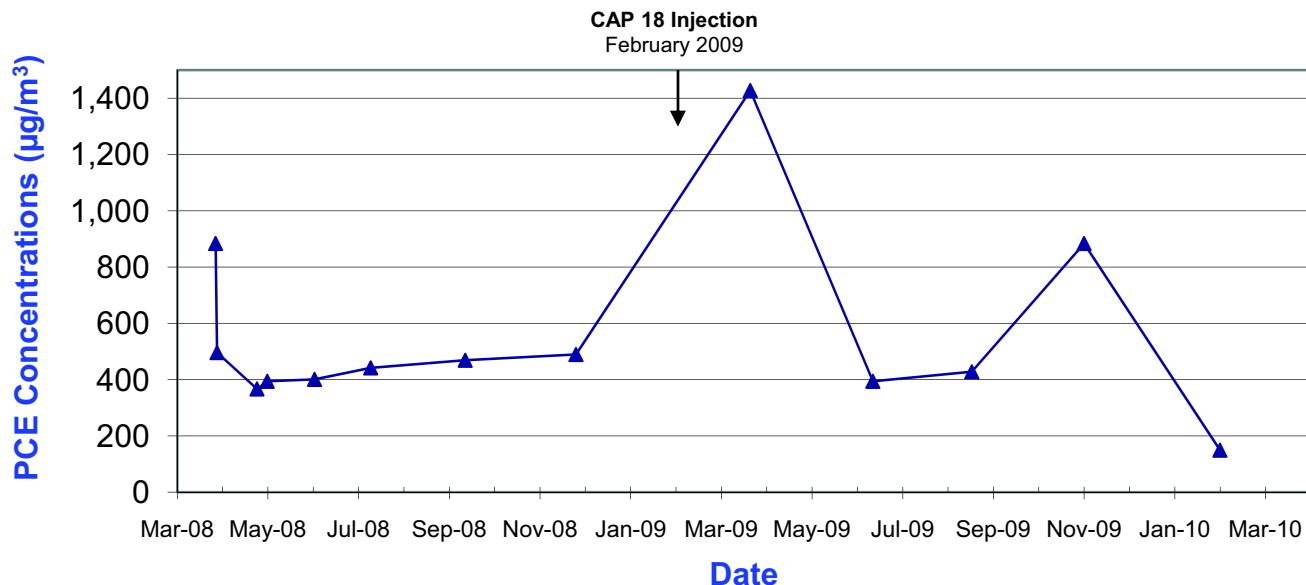
**PCE Vapor Concentrations Trend -
Laundromat Vapor Mitigation System (B4)**



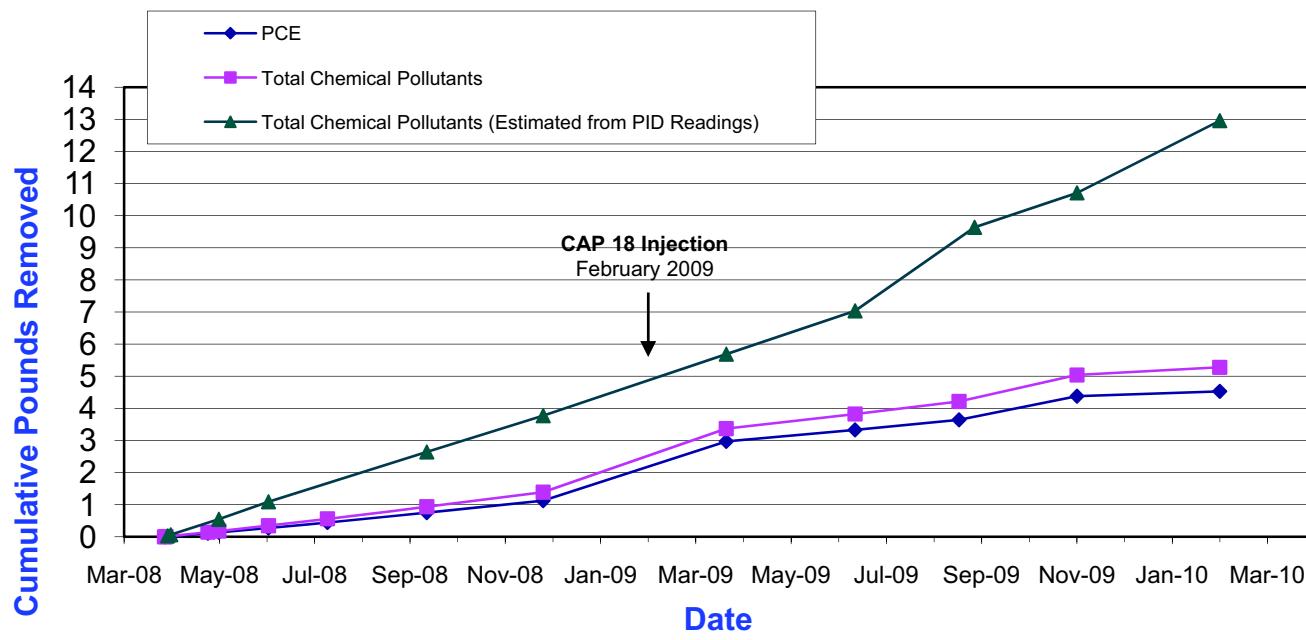
**Chemical Pounds Removed -
Laundromat Vapor Mitigation System (B4)**



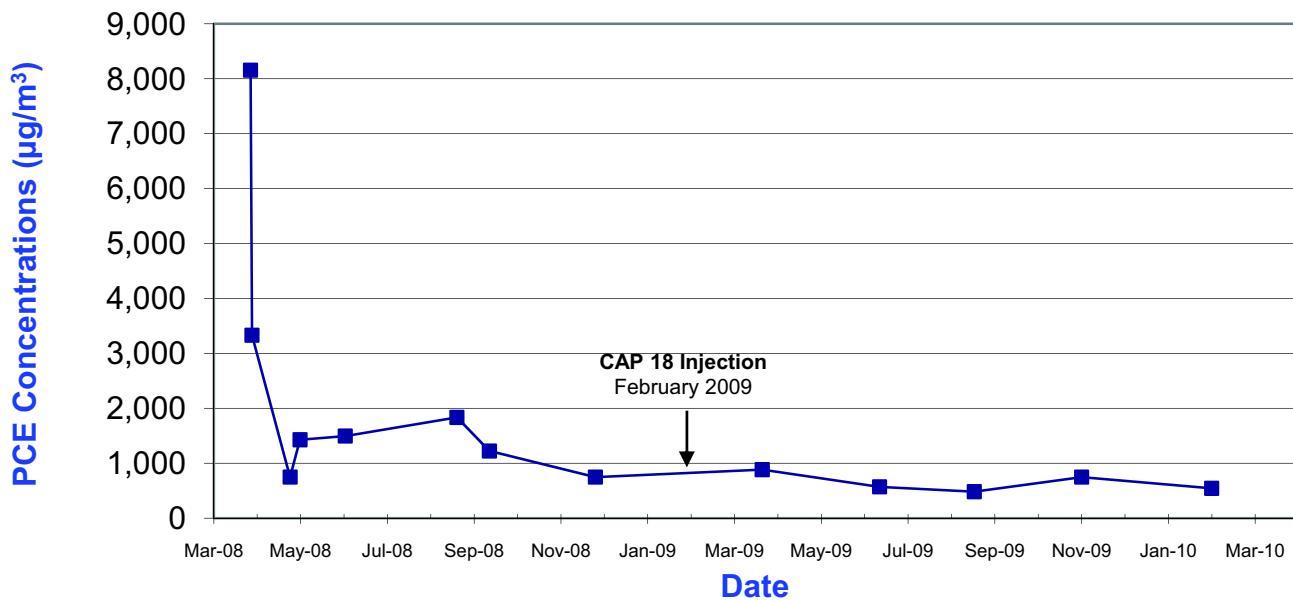
**PCE Vapor Concentrations Trend -
Apartment Building 1 Vapor Mitigation System (B5)**



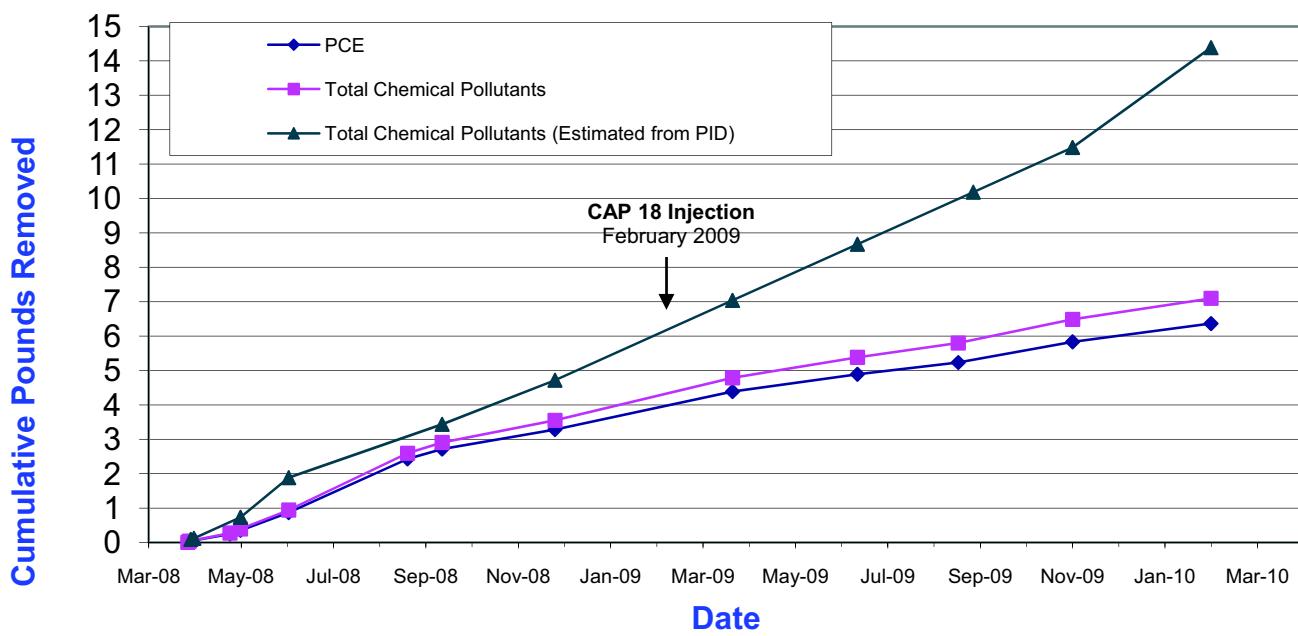
**Chemical Pounds Removed -
Apartment Building 1 Vapor Mitigation System (B5)**



**PCE Vapor Concentrations Trend -
Apartment Building 6 Vapor Mitigation System (B6)**



**Chemical Pounds Removed -
Apartment Building 6 Vapor Mitigation System (B6)**



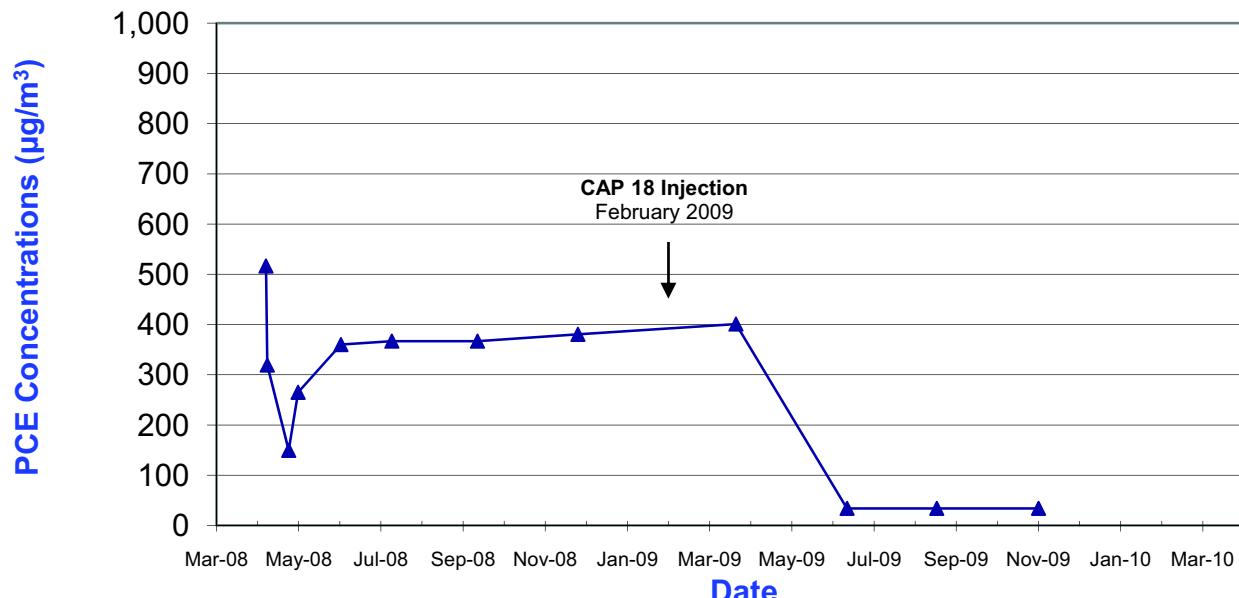
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, Indiana 46219
www.MundellAssociates.com

Project Number:	M01046
File:	MI Meadows charts
Date Prepared:	4/16/2010
Scale:	no scale

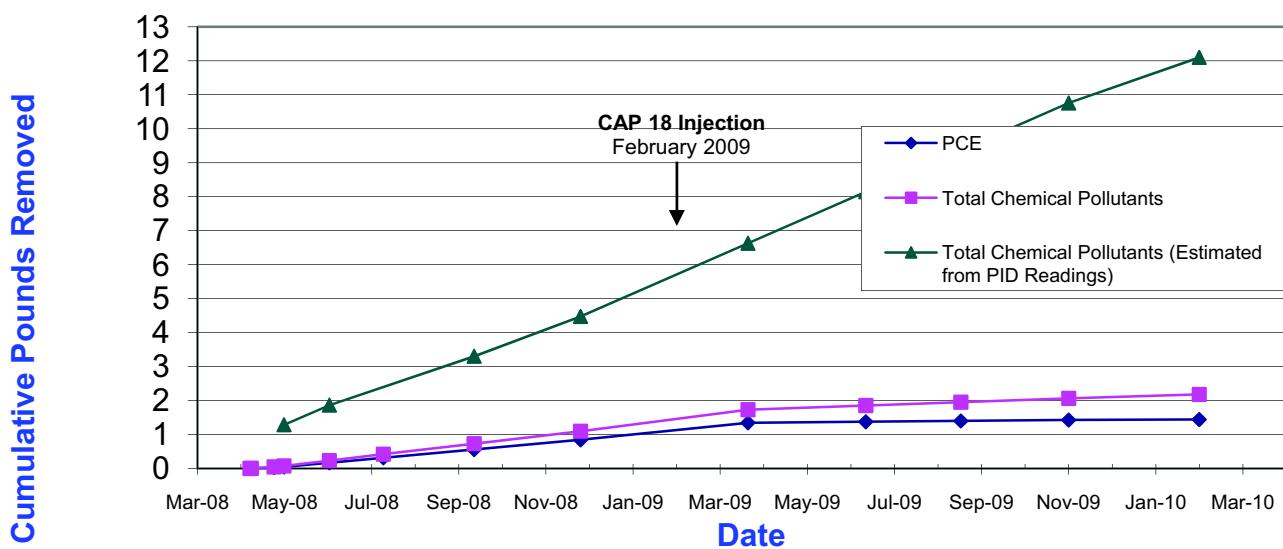
PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-6 (Apartments, Bldg. 6)
First Quarter 2010
Michigan Plaza
3801-3823 West Michigan Avenue
Indianapolis, IN

FIGURE
12

**PCE Vapor Concentrations Trend -
Apartment Building 10 Vapor Mitigation System (B7)**



**Chemical Pounds Removed -
Apartment Building 10 Vapor Mitigation System (B7)**



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Indianapolis, Indiana 46219
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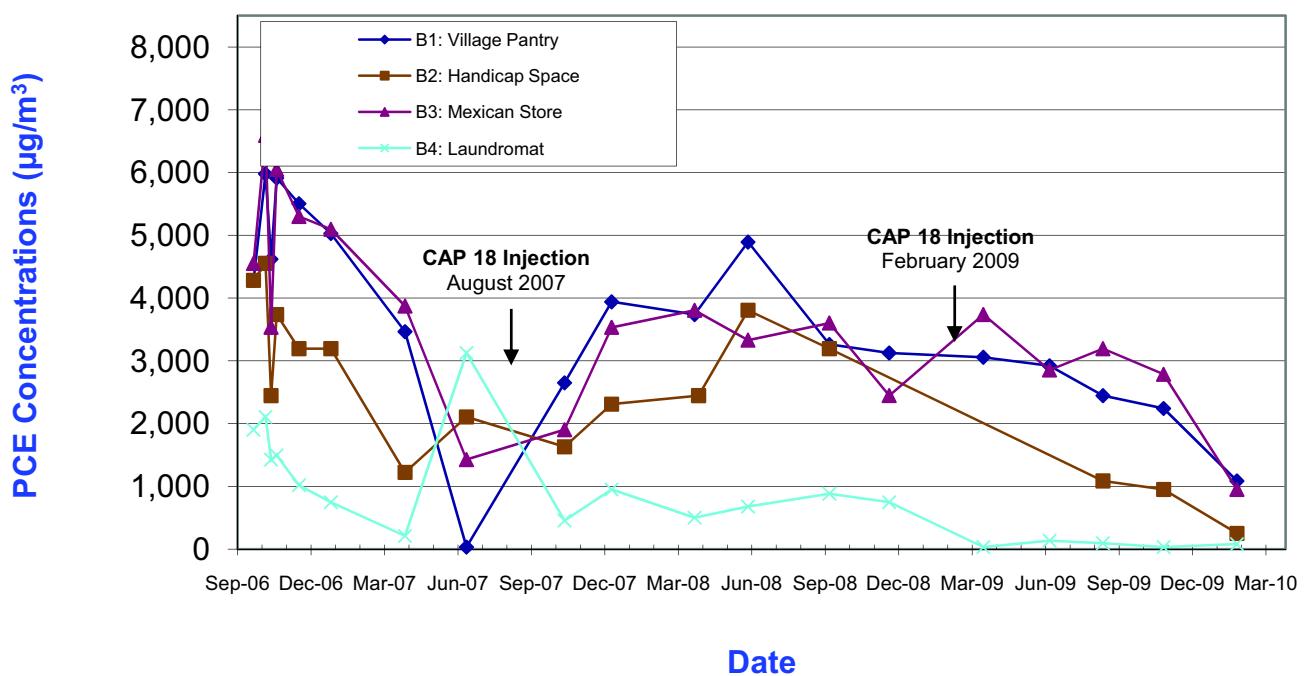
Project Number:
M01046
File:
MI Meadows charts
Date Prepared:
4/16/2010
Scale:
no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-7 (Apartments, Bldg. 10)
First Quarter 2010
Michigan Plaza
3801-3823 West Michigan Avenue
Indianapolis, IN

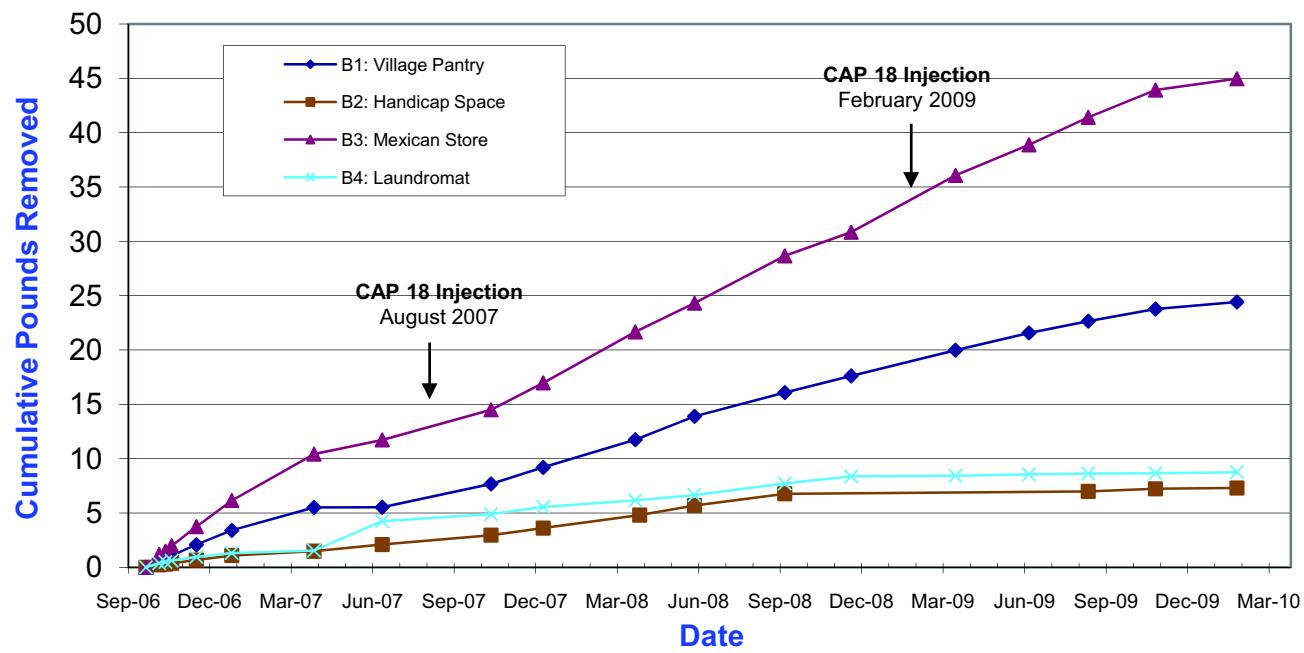
FIGURE

13

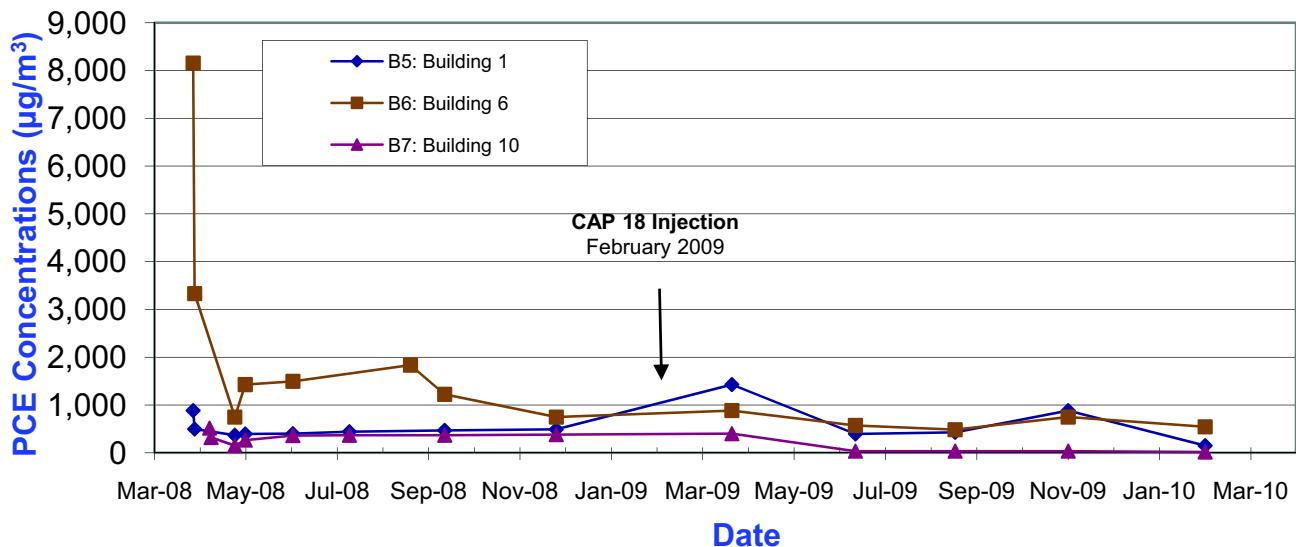
**PCE Concentrations Trend -
Plaza Vapor Mitigation Systems (B1-B4)**



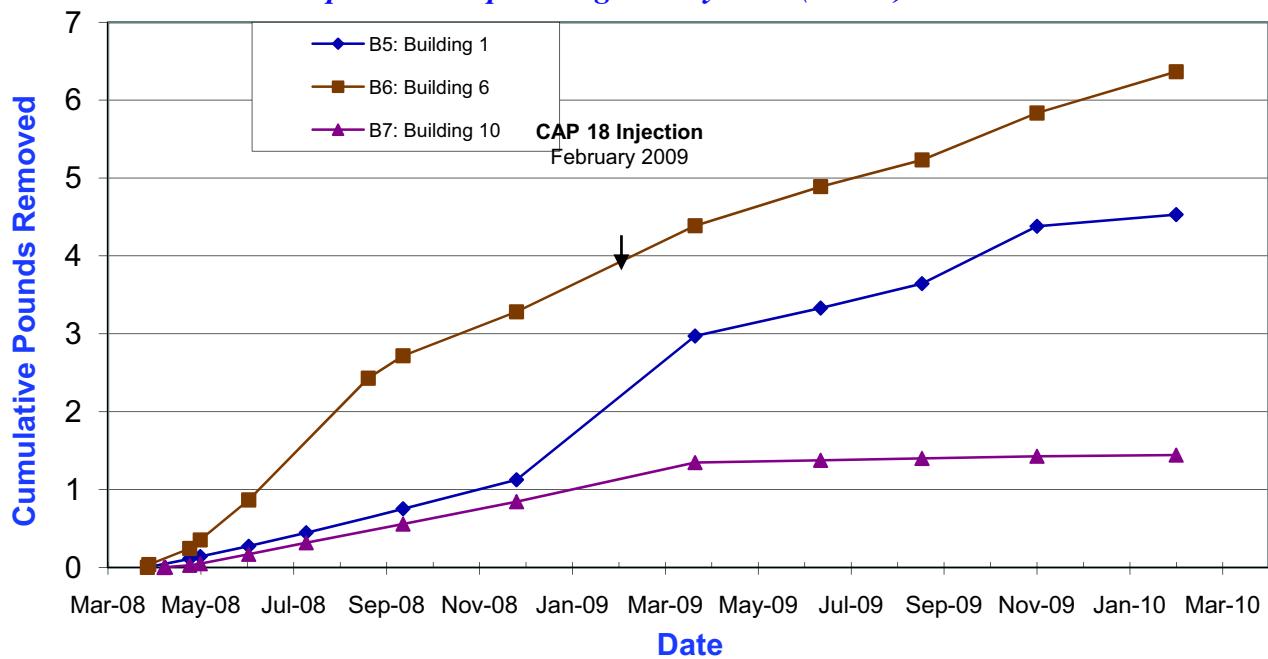
**PCE Pounds Removed -
Plaza Vapor Mitigation Systems (B1-B4)**



**PCE Concentrations Trend -
Apartment Vapor Mitigation Systems (B5-B7)**



**PCE Pounds Removed -
Apartment Vapor Mitigation Systems (B5-B7)**



Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, Indiana 46219
www.MundellAssociates.com

Project Number:	M01046
File:	MI Meadows charts
Date Prepared:	4/16/2010
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation Systems B5-B7 (Apartments)
First Quarter 2010
Michigan Plaza
3801-3823 West Michigan Avenue
Indianapolis, IN

FIGURE
15

APPENDIX A

Lab Analytical Results

February 15, 2010

Ms. Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

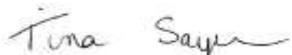
RE: Project: Michigan Plaza
Pace Project No.: 5034444

Dear Ms. Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 04, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

7726 Moller Road Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

cc: Jelling Lai, Mundell & Associates

REPORT OF LABORATORY ANALYSIS

Page 1 of 24

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SAMPLE SUMMARY

Project: Michigan Plaza
 Pace Project No.: 5034444

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5034444001	MMW-1S	Water	02/03/10 12:33	02/04/10 10:40
5034444002	MMW-8S	Water	02/03/10 13:40	02/04/10 10:40
5034444003	MMW-9S	Water	02/03/10 11:43	02/04/10 10:40
5034444004	MMW-10S	Water	02/03/10 12:08	02/04/10 10:40
5034444005	MMW-11S	Water	02/03/10 13:08	02/04/10 10:40
5034444006	MMW-11D	Water	02/03/10 13:25	02/04/10 10:40
5034444007	MMW-12S	Water	02/03/10 11:15	02/04/10 10:40
5034444008	MMW-14D	Water	02/03/10 11:30	02/04/10 10:40
5034444009	MMW-13D	Water	02/03/10 12:48	02/04/10 10:40
5034444010	MMW-P-09S	Water	02/03/10 14:26	02/04/10 10:40
5034444011	MMW-P-09D	Water	02/03/10 14:05	02/04/10 10:40
5034444012	MMW-C-01	Water	02/03/10 14:59	02/04/10 10:40
5034444013	MMW-C-02	Water	02/03/10 14:44	02/04/10 10:40

REPORT OF LABORATORY ANALYSIS

Page 2 of 24

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza
Pace Project No.: 5034444

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5034444001	MMW-1S	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034444002	MMW-8S	EPA 8260	ALA	18
5034444003	MMW-9S	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034444004	MMW-10S	EPA 8260	ALA	18
5034444005	MMW-11S	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034444006	MMW-11D	EPA 8260	ALA	18
5034444007	MMW-12S	EPA 8260	ALA	18
5034444008	MMW-14D	EPA 8260	ALA	18
5034444009	MMW-13D	EPA 8260	ALA	18
5034444010	MMW-P-09S	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034444011	MMW-P-09D	EPA 8260	ALA	18
5034444012	MMW-C-01	EPA 8260	ALA	18
5034444013	MMW-C-02	EPA 8260	ALA	18

REPORT OF LABORATORY ANALYSIS

Page 3 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-1S	Lab ID: 5034444001	Collected: 02/03/10 12:33	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/09/10 15:09	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 15:09	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/09/10 15:09	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 15:09	75-35-4	
cis-1,2-Dichloroethene	59.1	ug/L	5.0	1		02/09/10 15:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 15:09	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 15:09	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 15:09	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/09/10 15:09	91-20-3	
Tetrachloroethene	160	ug/L	5.0	1		02/09/10 15:09	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 15:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 15:09	71-55-6	
Trichloroethene	49.7	ug/L	5.0	1		02/09/10 15:09	79-01-6	
Vinyl chloride	35.4	ug/L	2.0	1		02/09/10 15:09	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 15:09	1330-20-7	
Dibromofluoromethane (S)	101 %		80-123	1		02/09/10 15:09	1868-53-7	
4-Bromofluorobenzene (S)	107 %		70-126	1		02/09/10 15:09	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		02/09/10 15:09	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/04/10 19:37		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	13.3	mg/L	5.0	1		02/09/10 11:00	14808-79-8	

Date: 02/15/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 4 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-8S	Lab ID: 5034444002	Collected: 02/03/10 13:40	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		02/09/10 15:41	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/09/10 15:41	56-23-5	
Chloroform	ND ug/L		5.0	1		02/09/10 15:41	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/09/10 15:41	75-35-4	
cis-1,2-Dichloroethene	15.3 ug/L		5.0	1		02/09/10 15:41	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/09/10 15:41	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/09/10 15:41	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/09/10 15:41	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/09/10 15:41	91-20-3	
Tetrachloroethene	7.9 ug/L		5.0	1		02/09/10 15:41	127-18-4	
Toluene	ND ug/L		5.0	1		02/09/10 15:41	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/09/10 15:41	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/09/10 15:41	79-01-6	
Vinyl chloride	236 ug/L		2.0	1		02/09/10 15:41	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/09/10 15:41	1330-20-7	
Dibromofluoromethane (S)	101 %		80-123	1		02/09/10 15:41	1868-53-7	
4-Bromofluorobenzene (S)	107 %		70-126	1		02/09/10 15:41	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		02/09/10 15:41	2037-26-5	

Date: 02/15/2010 11:26 AM

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Page 5 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-9S	Lab ID: 5034444003	Collected: 02/03/10 11:43	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		50.0	10		02/09/10 16:45	71-43-2	1d
Carbon tetrachloride	ND ug/L		50.0	10		02/09/10 16:45	56-23-5	
Chloroform	ND ug/L		50.0	10		02/09/10 16:45	67-66-3	
1,1-Dichloroethene	ND ug/L		50.0	10		02/09/10 16:45	75-35-4	
cis-1,2-Dichloroethene	5090 ug/L		500	100		02/09/10 18:25	156-59-2	
trans-1,2-Dichloroethene	98.4 ug/L		50.0	10		02/09/10 16:45	156-60-5	
Ethylbenzene	ND ug/L		50.0	10		02/09/10 16:45	100-41-4	
Methylene chloride	ND ug/L		50.0	10		02/09/10 16:45	75-09-2	
Naphthalene	ND ug/L		50.0	10		02/09/10 16:45	91-20-3	
Tetrachloroethene	ND ug/L		50.0	10		02/09/10 16:45	127-18-4	2d
Toluene	ND ug/L		50.0	10		02/09/10 16:45	108-88-3	
1,1,1-Trichloroethane	ND ug/L		50.0	10		02/09/10 16:45	71-55-6	
Trichloroethene	ND ug/L		50.0	10		02/09/10 16:45	79-01-6	3d
Vinyl chloride	1700 ug/L		20.0	10		02/09/10 16:45	75-01-4	
Xylene (Total)	ND ug/L		100	10		02/09/10 16:45	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	10		02/09/10 16:45	1868-53-7	
4-Bromofluorobenzene (S)	102 %		70-126	10		02/09/10 16:45	460-00-4	
Toluene-d8 (S)	103 %		80-116	10		02/09/10 16:45	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND mg/L		0.10	1		02/04/10 19:29		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	116 mg/L		25.0	5		02/09/10 11:00	14808-79-8	

Date: 02/15/2010 11:26 AM

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Page 6 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-10S	Lab ID: 5034444004	Collected: 02/03/10 12:08	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		02/09/10 18:59	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/09/10 18:59	56-23-5	
Chloroform	ND ug/L		5.0	1		02/09/10 18:59	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/09/10 18:59	75-35-4	
cis-1,2-Dichloroethene	180 ug/L		5.0	1		02/09/10 18:59	156-59-2	
trans-1,2-Dichloroethene	5.1 ug/L		5.0	1		02/09/10 18:59	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/09/10 18:59	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/09/10 18:59	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/09/10 18:59	91-20-3	
Tetrachloroethene	8.3 ug/L		5.0	1		02/09/10 18:59	127-18-4	
Toluene	ND ug/L		5.0	1		02/09/10 18:59	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/09/10 18:59	71-55-6	
Trichloroethene	7.5 ug/L		5.0	1		02/09/10 18:59	79-01-6	
Vinyl chloride	148 ug/L		2.0	1		02/09/10 18:59	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/09/10 18:59	1330-20-7	
Dibromofluoromethane (S)	111 %		80-123	1		02/09/10 18:59	1868-53-7	
4-Bromofluorobenzene (S)	105 %		70-126	1		02/09/10 18:59	460-00-4	
Toluene-d8 (S)	99 %		80-116	1		02/09/10 18:59	2037-26-5	

Date: 02/15/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 7 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-11S	Lab ID: 5034444005	Collected: 02/03/10 13:08	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/09/10 19:31	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 19:31	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/09/10 19:31	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 19:31	75-35-4	
cis-1,2-Dichloroethene	29.4	ug/L	5.0	1		02/09/10 19:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 19:31	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 19:31	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 19:31	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/09/10 19:31	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 19:31	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 19:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 19:31	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 19:31	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/09/10 19:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 19:31	1330-20-7	
Dibromofluoromethane (S)	114 %		80-123	1		02/09/10 19:31	1868-53-7	
4-Bromofluorobenzene (S)	109 %		70-126	1		02/09/10 19:31	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		02/09/10 19:31	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	3.6	mg/L	0.10	1		02/04/10 19:38		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	159	mg/L	50.0	10		02/09/10 11:00	14808-79-8	

Date: 02/15/2010 11:26 AM

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Page 8 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-11D	Lab ID: 5034444006	Collected: 02/03/10 13:25	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		02/09/10 20:34	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/09/10 20:34	56-23-5	
Chloroform	ND ug/L		5.0	1		02/09/10 20:34	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/09/10 20:34	75-35-4	
cis-1,2-Dichloroethene	301 ug/L		50.0	10		02/10/10 17:56	156-59-2	
trans-1,2-Dichloroethene	28.2 ug/L		5.0	1		02/09/10 20:34	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/09/10 20:34	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/09/10 20:34	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/09/10 20:34	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/09/10 20:34	127-18-4	
Toluene	ND ug/L		5.0	1		02/09/10 20:34	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/09/10 20:34	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/09/10 20:34	79-01-6	
Vinyl chloride	5.2 ug/L		2.0	1		02/09/10 20:34	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/09/10 20:34	1330-20-7	
Dibromofluoromethane (S)	118 %		80-123	1		02/09/10 20:34	1868-53-7	
4-Bromofluorobenzene (S)	105 %		70-126	1		02/09/10 20:34	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		02/09/10 20:34	2037-26-5	

Date: 02/15/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 9 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-12S	Lab ID: 5034444007	Collected: 02/03/10 11:15	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		02/09/10 21:06	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/09/10 21:06	56-23-5	
Chloroform	ND ug/L		5.0	1		02/09/10 21:06	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/09/10 21:06	75-35-4	
cis-1,2-Dichloroethene	11.4 ug/L		5.0	1		02/09/10 21:06	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/09/10 21:06	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/09/10 21:06	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/09/10 21:06	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/09/10 21:06	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/09/10 21:06	127-18-4	
Toluene	ND ug/L		5.0	1		02/09/10 21:06	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/09/10 21:06	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/09/10 21:06	79-01-6	
Vinyl chloride	2.1 ug/L		2.0	1		02/09/10 21:06	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/09/10 21:06	1330-20-7	
Dibromofluoromethane (S)	115 %		80-123	1		02/09/10 21:06	1868-53-7	
4-Bromofluorobenzene (S)	106 %		70-126	1		02/09/10 21:06	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		02/09/10 21:06	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

Page 10 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-14D	Lab ID: 5034444008	Collected: 02/03/10 11:30	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		02/09/10 21:38	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/09/10 21:38	56-23-5	
Chloroform	ND ug/L		5.0	1		02/09/10 21:38	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/09/10 21:38	75-35-4	
cis-1,2-Dichloroethene	871 ug/L		50.0	10		02/09/10 22:10	156-59-2	
trans-1,2-Dichloroethene	13.9 ug/L		5.0	1		02/09/10 21:38	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/09/10 21:38	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/09/10 21:38	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/09/10 21:38	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/09/10 21:38	127-18-4	
Toluene	ND ug/L		5.0	1		02/09/10 21:38	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/09/10 21:38	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/09/10 21:38	79-01-6	
Vinyl chloride	84.9 ug/L		2.0	1		02/09/10 21:38	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/09/10 21:38	1330-20-7	
Dibromofluoromethane (S)	109 %		80-123	1		02/09/10 21:38	1868-53-7	
4-Bromofluorobenzene (S)	104 %		70-126	1		02/09/10 21:38	460-00-4	
Toluene-d8 (S)	98 %		80-116	1		02/09/10 21:38	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

Page 11 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-13D	Lab ID: 5034444009	Collected: 02/03/10 12:48	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/10/10 18:28	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 18:28	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 18:28	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 18:28	75-35-4	
cis-1,2-Dichloroethene	819	ug/L	50.0	10		02/10/10 19:00	156-59-2	
trans-1,2-Dichloroethene	6.2	ug/L	5.0	1		02/10/10 18:28	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 18:28	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 18:28	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 18:28	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 18:28	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 18:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 18:28	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 18:28	79-01-6	
Vinyl chloride	260	ug/L	2.0	1		02/10/10 18:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 18:28	1330-20-7	
Dibromofluoromethane (S)	125 %		80-123	1		02/10/10 18:28	1868-53-7	S2
4-Bromofluorobenzene (S)	106 %		70-126	1		02/10/10 18:28	460-00-4	
Toluene-d8 (S)	104 %		80-116	1		02/10/10 18:28	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

Page 12 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-P-09S	Lab ID: 5034444010	Collected: 02/03/10 14:26	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/09/10 23:14	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 23:14	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/09/10 23:14	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 23:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 23:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 23:14	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 23:14	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 23:14	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/09/10 23:14	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 23:14	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 23:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 23:14	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 23:14	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/09/10 23:14	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 23:14	1330-20-7	
Dibromofluoromethane (S)	122 %		80-123	1		02/09/10 23:14	1868-53-7	
4-Bromofluorobenzene (S)	109 %		70-126	1		02/09/10 23:14	460-00-4	
Toluene-d8 (S)	99 %		80-116	1		02/09/10 23:14	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.58	mg/L	0.10	1		02/04/10 19:40		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	85.8	mg/L	25.0	5		02/09/10 11:00	14808-79-8	

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REPORT OF LABORATORY ANALYSIS

Page 13 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-P-09D	Lab ID: 5034444011	Collected: 02/03/10 14:05	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/09/10 23:46	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 23:46	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/09/10 23:46	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 23:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 23:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 23:46	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 23:46	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 23:46	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/09/10 23:46	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 23:46	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 23:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 23:46	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 23:46	79-01-6	
Vinyl chloride	111	ug/L	2.0	1		02/09/10 23:46	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 23:46	1330-20-7	
Dibromofluoromethane (S)	122 %		80-123	1		02/09/10 23:46	1868-53-7	
4-Bromofluorobenzene (S)	108 %		70-126	1		02/09/10 23:46	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		02/09/10 23:46	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

Page 14 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-C-01	Lab ID: 5034444012	Collected: 02/03/10 14:59	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/10/10 02:30	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 02:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 02:30	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 02:30	75-35-4	
cis-1,2-Dichloroethene	176	ug/L	5.0	1		02/10/10 02:30	156-59-2	
trans-1,2-Dichloroethene	10.1	ug/L	5.0	1		02/10/10 02:30	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 02:30	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 02:30	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 02:30	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 02:30	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 02:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 02:30	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 02:30	79-01-6	
Vinyl chloride	1790	ug/L	50.0	25		02/10/10 19:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 02:30	1330-20-7	
Dibromofluoromethane (S)	117 %		80-123	1		02/10/10 02:30	1868-53-7	
4-Bromofluorobenzene (S)	106 %		70-126	1		02/10/10 02:30	460-00-4	
Toluene-d8 (S)	97 %		80-116	1		02/10/10 02:30	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

Page 15 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034444

Sample: MMW-C-02	Lab ID: 5034444013	Collected: 02/03/10 14:44	Received: 02/04/10 10:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/10/10 03:02	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 03:02	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 03:02	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 03:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/10 03:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/10 03:02	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 03:02	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 03:02	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 03:02	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 03:02	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 03:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 03:02	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 03:02	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/10/10 03:02	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 03:02	1330-20-7	
Dibromofluoromethane (S)	115 %		80-123	1		02/10/10 03:02	1868-53-7	
4-Bromofluorobenzene (S)	103 %		70-126	1		02/10/10 03:02	460-00-4	
Toluene-d8 (S)	97 %		80-116	1		02/10/10 03:02	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

Page 16 of 24

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034444

QC Batch:	MSV/21608	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5034444001, 5034444002, 5034444003, 5034444004, 5034444005, 5034444006, 5034444007, 5034444008, 5034444010, 5034444011		

METHOD BLANK: 396014 Matrix: Water

Associated Lab Samples: 5034444001, 5034444002, 5034444003, 5034444004, 5034444005, 5034444006, 5034444007, 5034444008,
5034444010, 5034444011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/09/10 13:33	
1,1-Dichloroethene	ug/L	ND	5.0	02/09/10 13:33	
Benzene	ug/L	ND	5.0	02/09/10 13:33	
Carbon tetrachloride	ug/L	ND	5.0	02/09/10 13:33	
Chloroform	ug/L	ND	5.0	02/09/10 13:33	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/09/10 13:33	
Ethylbenzene	ug/L	ND	5.0	02/09/10 13:33	
Methylene chloride	ug/L	ND	5.0	02/09/10 13:33	
Naphthalene	ug/L	ND	5.0	02/09/10 13:33	
Tetrachloroethene	ug/L	ND	5.0	02/09/10 13:33	
Toluene	ug/L	ND	5.0	02/09/10 13:33	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/09/10 13:33	
Trichloroethene	ug/L	ND	5.0	02/09/10 13:33	
Vinyl chloride	ug/L	ND	2.0	02/09/10 13:33	
Xylene (Total)	ug/L	ND	10.0	02/09/10 13:33	
4-Bromofluorobenzene (S)	%	104	70-126	02/09/10 13:33	
Dibromofluoromethane (S)	%	105	80-123	02/09/10 13:33	
Toluene-d8 (S)	%	97	80-116	02/09/10 13:33	

LABORATORY CONTROL SAMPLE: 396015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	69-136	
1,1-Dichloroethene	ug/L	50	64.0	128	63-128	
Benzene	ug/L	50	52.1	104	78-127	
Carbon tetrachloride	ug/L	50	52.5	105	62-143	
Chloroform	ug/L	50	54.9	110	74-131	
cis-1,2-Dichloroethene	ug/L	50	55.5	111	74-128	
Ethylbenzene	ug/L	50	52.1	104	81-126	
Methylene chloride	ug/L	50	52.8	106	32-164	
Naphthalene	ug/L	50	50.6	101	61-135	
Tetrachloroethene	ug/L	50	49.5	99	60-119	
Toluene	ug/L	50	48.2	96	75-129	
trans-1,2-Dichloroethene	ug/L	50	60.2	120	71-126	
Trichloroethene	ug/L	50	53.7	107	74-130	
Vinyl chloride	ug/L	50	51.9	104	55-141	
Xylene (Total)	ug/L	150	157	105	76-132	
4-Bromofluorobenzene (S)	%			102	70-126	
Dibromofluoromethane (S)	%			104	80-123	
Toluene-d8 (S)	%			101	80-116	

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REPORT OF LABORATORY ANALYSIS

Page 17 of 24

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034444

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 396016 396017

Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	MSD % Rec	% Rec	Max
			Spike Conc.	Spike Conc.							Limits	RPD RPD Qual
1,1,1-Trichloroethane	ug/L	ND	500	500	545	538	109	108	64-143	100	1	20
1,1-Dichloroethene	ug/L	ND	500	500	621	624	124	125	55-140	125	.6	20
Benzene	ug/L	ND	500	500	488	492	98	98	63-141	98	.7	20
Carbon tetrachloride	ug/L	ND	500	500	499	493	100	99	54-145	99	1	20
Chloroform	ug/L	ND	500	500	518	518	104	104	67-134	104	.05	20
cis-1,2-Dichloroethene	ug/L	5090	500	500	5480	5590	80	100	65-132	100	2	20
Ethylbenzene	ug/L	ND	500	500	460	478	92	96	44-151	96	4	20
Methylene chloride	ug/L	ND	500	500	499	523	100	105	46-154	105	5	20
Naphthalene	ug/L	ND	500	500	427	454	85	91	44-138	91	6	20
Tetrachloroethene	ug/L	ND	500	500	424	458	85	92	25-146	92	8	20
Toluene	ug/L	ND	500	500	435	467	87	93	59-142	93	7	20
trans-1,2-Dichloroethene	ug/L	98.4	500	500	671	652	114	111	60-137	111	3	20
Trichloroethene	ug/L	ND	500	500	503	509	101	102	61-137	102	1	20
Vinyl chloride	ug/L	1700	500	500	2220	2100	104	81	51-144	81	5	20
Xylene (Total)	ug/L	ND	1500	1500	1370	1440	92	96	44-152	96	5	20
4-Bromofluorobenzene (S)	%						104	108	70-126	108		20
Dibromofluoromethane (S)	%						108	107	80-123	107		20
Toluene-d8 (S)	%						102	103	80-116	103		20

Date: 02/15/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 18 of 24

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034444

QC Batch: MSV/21609 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5034444012, 5034444013

METHOD BLANK: 396018 Matrix: Water

Associated Lab Samples: 5034444012, 5034444013

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
1,1,1-Trichloroethane	ug/L	ND	5.0	02/10/10 01:56	
1,1-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Benzene	ug/L	ND	5.0	02/10/10 01:56	
Carbon tetrachloride	ug/L	ND	5.0	02/10/10 01:56	
Chloroform	ug/L	ND	5.0	02/10/10 01:56	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Ethylbenzene	ug/L	ND	5.0	02/10/10 01:56	
Methylene chloride	ug/L	ND	5.0	02/10/10 01:56	
Naphthalene	ug/L	ND	5.0	02/10/10 01:56	
Tetrachloroethene	ug/L	ND	5.0	02/10/10 01:56	
Toluene	ug/L	ND	5.0	02/10/10 01:56	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Trichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Vinyl chloride	ug/L	ND	2.0	02/10/10 01:56	
Xylene (Total)	ug/L	ND	10.0	02/10/10 01:56	
4-Bromofluorobenzene (S)	%	111	70-126	02/10/10 01:56	
Dibromofluoromethane (S)	%	129	80-123	02/10/10 01:56	S3
Toluene-d8 (S)	%	100	80-116	02/10/10 01:56	

LABORATORY CONTROL SAMPLE: 396019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.4	119	69-136	
1,1-Dichloroethene	ug/L	50	65.6	131	63-128	L3
Benzene	ug/L	50	53.3	107	78-127	
Carbon tetrachloride	ug/L	50	53.4	107	62-143	
Chloroform	ug/L	50	56.9	114	74-131	
cis-1,2-Dichloroethene	ug/L	50	56.2	112	74-128	
Ethylbenzene	ug/L	50	50.1	100	81-126	
Methylene chloride	ug/L	50	53.5	107	32-164	
Naphthalene	ug/L	50	57.1	114	61-135	
Tetrachloroethene	ug/L	50	48.5	97	60-119	
Toluene	ug/L	50	48.2	96	75-129	
trans-1,2-Dichloroethene	ug/L	50	60.6	121	71-126	
Trichloroethene	ug/L	50	53.2	106	74-130	
Vinyl chloride	ug/L	50	54.4	109	55-141	
Xylene (Total)	ug/L	150	151	100	76-132	
4-Bromofluorobenzene (S)	%			100	70-126	
Dibromofluoromethane (S)	%			108	80-123	
Toluene-d8 (S)	%			99	80-116	

Date: 02/15/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 19 of 24

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034444

QC Batch:	MSV/21634	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5034444009		

METHOD BLANK: 396230 Matrix: Water

Associated Lab Samples: 5034444009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/10/10 14:43	
1,1-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Benzene	ug/L	ND	5.0	02/10/10 14:43	
Carbon tetrachloride	ug/L	ND	5.0	02/10/10 14:43	
Chloroform	ug/L	ND	5.0	02/10/10 14:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Ethylbenzene	ug/L	ND	5.0	02/10/10 14:43	
Methylene chloride	ug/L	ND	5.0	02/10/10 14:43	
Naphthalene	ug/L	ND	5.0	02/10/10 14:43	
Tetrachloroethene	ug/L	ND	5.0	02/10/10 14:43	
Toluene	ug/L	ND	5.0	02/10/10 14:43	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Trichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Vinyl chloride	ug/L	ND	2.0	02/10/10 14:43	
Xylene (Total)	ug/L	ND	10.0	02/10/10 14:43	
4-Bromofluorobenzene (S)	%	105	70-126	02/10/10 14:43	
Dibromofluoromethane (S)	%	111	80-123	02/10/10 14:43	
Toluene-d8 (S)	%	106	80-116	02/10/10 14:43	

LABORATORY CONTROL SAMPLE: 396231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.3	109	69-136	
1,1-Dichloroethene	ug/L	50	60.3	121	63-128	
Benzene	ug/L	50	48.6	97	78-127	
Carbon tetrachloride	ug/L	50	48.9	98	62-143	
Chloroform	ug/L	50	52.6	105	74-131	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	74-128	
Ethylbenzene	ug/L	50	52.6	105	81-126	
Methylene chloride	ug/L	50	50.5	101	32-164	
Naphthalene	ug/L	50	51.5	103	61-135	
Tetrachloroethene	ug/L	50	50.8	102	60-119	
Toluene	ug/L	50	50.0	100	75-129	
trans-1,2-Dichloroethene	ug/L	50	56.4	113	71-126	
Trichloroethene	ug/L	50	49.8	100	74-130	
Vinyl chloride	ug/L	50	50.5	101	55-141	
Xylene (Total)	ug/L	150	155	103	76-132	
4-Bromofluorobenzene (S)	%			101	70-126	
Dibromofluoromethane (S)	%			106	80-123	
Toluene-d8 (S)	%			110	80-116	

Date: 02/15/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

Page 20 of 24

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034444

MATRIX SPIKE SAMPLE: 396256

Parameter	Units	5034555002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	41.3	83	64-143	
1,1-Dichloroethene	ug/L	ND	50	48.9	98	55-140	
Benzene	ug/L	ND	50	37.0	74	63-141	
Carbon tetrachloride	ug/L	ND	50	38.1	76	54-145	
Chloroform	ug/L	ND	50	39.9	80	67-134	
cis-1,2-Dichloroethene	ug/L	ND	50	39.5	79	65-132	
Ethylbenzene	ug/L	ND	50	38.8	78	44-151	
Methylene chloride	ug/L	ND	50	37.1	74	46-154	
Naphthalene	ug/L	ND	50	34.4	69	44-138	
Tetrachloroethene	ug/L	ND	50	37.4	75	25-146	
Toluene	ug/L	ND	50	36.8	74	59-142	
trans-1,2-Dichloroethene	ug/L	ND	50	42.6	85	60-137	
Trichloroethene	ug/L	ND	50	39.1	78	61-137	
Vinyl chloride	ug/L	ND	50	40.0	80	51-144	
Xylene (Total)	ug/L	ND	150	117	78	44-152	
4-Bromofluorobenzene (S)	%				102	70-126	
Dibromofluoromethane (S)	%				104	80-123	
Toluene-d8 (S)	%				105	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 396257 396258

Parameter	Units	5034474006		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		
		Spike Result	Conc.	Spike Conc.	MS Result				RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	61.1	61.1	122	122	64-143	.008	20
1,1-Dichloroethene	ug/L	ND	50	50	72.1	82.8	144	166	55-140	14	20 M0
Benzene	ug/L	ND	50	50	51.2	53.1	102	106	63-141	4	20
Carbon tetrachloride	ug/L	ND	50	50	55.7	56.9	111	114	54-145	2	20
Chloroform	ug/L	ND	50	50	57.5	58.0	115	116	67-134	.9	20
cis-1,2-Dichloroethene	ug/L	6.8	50	50	67.2	67.6	121	122	65-132	.5	20
Ethylbenzene	ug/L	ND	50	50	47.6	49.3	95	99	44-151	4	20
Methylene chloride	ug/L	ND	50	50	52.6	55.7	105	111	46-154	6	20
Naphthalene	ug/L	ND	50	50	46.9	48.0	94	96	44-138	2	20
Tetrachloroethene	ug/L	ND	50	50	46.8	45.5	94	91	25-146	3	20
Toluene	ug/L	ND	50	50	45.6	45.4	91	91	59-142	.5	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	62.7	63.6	125	127	60-137	1	20
Trichloroethene	ug/L	ND	50	50	53.6	52.0	107	104	61-137	3	20
Vinyl chloride	ug/L	ND	50	50	58.0	61.6	113	120	51-144	6	20
Xylene (Total)	ug/L	ND	150	150	146	149	97	99	44-152	2	20
4-Bromofluorobenzene (S)	%						102	101	70-126		20
Dibromofluoromethane (S)	%						116	116	80-123		20
Toluene-d8 (S)	%						101	98	80-116		20

QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034444

QC Batch:	WETA/4639	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples:	5034444001, 5034444003, 5034444005, 5034444010		

METHOD BLANK: 394747 Matrix: Water

Associated Lab Samples: 5034444001, 5034444003, 5034444005, 5034444010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/04/10 19:24	

LABORATORY CONTROL SAMPLE: 394748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	1.8	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 394749 394750

Parameter	Units	5034444003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.8	1.9	90	92	90-110	1	20	

QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034444

QC Batch: WETA/4646 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5034444001, 5034444003, 5034444005, 5034444010

METHOD BLANK: 395553 Matrix: Water

Associated Lab Samples: 5034444001, 5034444003, 5034444005, 5034444010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	02/09/10 11:00	

LABORATORY CONTROL SAMPLE: 395554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 395555 395556

Parameter	5034382004		MS		MSD							
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	68.9	100	100	170	164	101	95	75-125	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 395557 395558

Parameter	5034444003		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result						
Sulfate	mg/L	116	100	100	213	215	97	100	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Page 23 of 24

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QUALIFIERS

Project: Michigan Plaza
Pace Project No.: 5034444

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

- 1d Benzene evaluated to 5ug/L estimated RL. aa 2/10/10
- 2d PCE evaluated to 5ug/L estimated RL. aa 2/10/10
- 3d TCE evaluated to 5ug/L estimated RL. aa 2/10/10
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
- S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.



Sample Condition Upon Receipt

PaceAnalytical

Client Name: Mundell & Assoc. Project # 5034444Courier: Fed Ex UPS USPS Client Commercial Pace Other
Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 123456 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 3.6°C Biological Tissue is Frozen: Yes No

Comments: _____ Date and Initials of person examining contents: 2/4/10 27

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>Water</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, californ, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

_____Project Manager Review: J. SayerDate: 02/04/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Sample Container Count

CLIENT: Minnesota Asloc.

COC PAGE 1 of 1
COC ID# 1239810

Project # 3034444

Pace Analytical

Sample Line

Item	DG9H	AG1U	WGFU	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3													
2	3													
3	9													
4	3													3
5	3													
6	3													
7	3													
8	3													
9	3													
10	3													1
11	3													
12	3													

Container Codes

DG9H	40mL HCl amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	Terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	JGFU	1 Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOH, Asc Acid plastic	VGGH	40mL HCl, clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP3C	250mL NaOH plastic	VGGT	40mL Na Thio, clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VGGU	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCl
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

CLIENT: Mundell & Assoc.

Sample Container Count



COC PAGE 2 of 2
COC ID# 135813

Project #

5034444

Sample Line

Item	DG9H	AG1U	WGFU	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	2												
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Container Codes

DG9H	40mL HCl amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	BP1S	1 liter H2SO4 plastic	BP1U	1 liter H2SO4 amber glass	BP1T	1 liter H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H2SO4 plastic	BP1T	1 liter H2SO4 plastic	BP1U	1 liter unpreserved plastic	BP1Z	1 liter unpreserved plastic	BP2O	500mL NaOH plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	BP1Z	1 liter Thiosulfate amber gl	BP1Z	1 liter Na Thio	BP1Z	1 liter Na Thio amber vial	BP2O	500mL NaOH plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	BP2O	500mL NaOH plastic	DG9U	40mL unpreserved amber vial						
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	BP2O	500mL NaOH plastic	BP2O	500mL NaOH plastic	BP2O	500mL NaOH plastic	BP2O	500mL NaOH plastic	JG FU	4oz unpreserved amber wide
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	JG FU	4oz unpreserved amber wide						
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP3A	250mL NaOH, Asc Acid plastic	JG FU	4oz unpreserved amber wide								
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3C	250mL NaOH plastic	VGGH	40mL HCl, clear vial								
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VGGT	40mL Na Thio, clear vial								
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VGGU	40mL unpreserved clear vial								
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassette	VSG	Headspace septa vial & HCl								
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	DG9M	40mL MeOH clear vial	DG9M	40mL MeOH clear vial	DG9M	40mL MeOH clear vial	DG9M	40mL MeOH clear vial	WGFX	4oz wide jar whexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	ZPLC	Ziploc Bag	ZPLC	Ziploc Bag								

February 17, 2010

Ms. Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

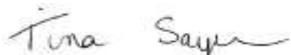
RE: Project: Michigan Plaza
Pace Project No.: 5034474

Dear Ms. Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 05, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

7726 Moller Road Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

cc: Jelling Lai, Mundell & Associates

REPORT OF LABORATORY ANALYSIS

Page 1 of 26

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SAMPLE SUMMARY

Project: Michigan Plaza
Pace Project No.: 5034474

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5034474001	MMW-9S	Water	02/04/10 15:00	02/05/10 09:10
5034474002	MMW-P-01	Water	02/04/10 11:14	02/05/10 09:10
5034474003	MMW-P-02	Water	02/04/10 09:46	02/05/10 09:10
5034474004	MMW-P-03S	Water	02/04/10 10:18	02/05/10 09:10
5034474005	MMW-P-03D	Water	02/04/10 10:01	02/05/10 09:10
5034474006	MMW-P-05	Water	02/04/10 10:56	02/05/10 09:10
5034474007	MMW-P-06	Water	02/04/10 10:39	02/05/10 09:10
5034474008	MMW-P-07	Water	02/04/10 11:44	02/05/10 09:10
5034474009	MMW-P-08	Water	02/04/10 12:13	02/05/10 09:10
5034474010	MMW-P-10S	Water	02/04/10 13:11	02/05/10 09:10
5034474011	MMW-P-10D	Water	02/04/10 12:48	02/05/10 09:10
5034474012	MMW-P-168D	Water	02/04/10 14:38	02/05/10 09:10
5034474013	Dup 1	Water	02/04/10 08:00	02/05/10 09:10
5034474014	Dup 2	Water	02/04/10 08:00	02/05/10 09:10
5034474015	Trip Blank	Water	02/04/10 08:00	02/05/10 09:10

REPORT OF LABORATORY ANALYSIS

Page 2 of 26

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza
Pace Project No.: 5034474

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5034474001	MMW-9S	SM 2340B	FRW	1
5034474002	MMW-P-01	EPA 8260	ALA	18
5034474003	MMW-P-02	EPA 8260	ALA	18
5034474004	MMW-P-03S	SM 2340B	FRW	1
		EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474005	MMW-P-03D	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474006	MMW-P-05	EPA 8260	ALA	18
5034474007	MMW-P-06	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474008	MMW-P-07	EPA 8260	ALA	18
5034474009	MMW-P-08	SM 2340B	FRW	1
		EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474010	MMW-P-10S	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474011	MMW-P-10D	EPA 8260	ALA	18
5034474012	MMW-P-168D	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474013	Dup 1	SM 2340B	FRW	1
		EPA 8260	ALA	18
5034474014	Dup 2	EPA 8260	ALA	18
5034474015	Trip Blank	EPA 8260	ALA	18

REPORT OF LABORATORY ANALYSIS

Page 3 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
 Pace Project No.: 5034474

Sample: MMW-9S	Lab ID: 5034474001	Collected: 02/04/10 15:00	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	650	mg/L		1.0	1		02/09/10 17:13	

Date: 02/17/2010 04:10 PM

REPORT OF LABORATORY ANALYSIS

Page 4 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: MMW-P-01	Lab ID: 5034474002	Collected: 02/04/10 11:14	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		50.0	10		02/10/10 20:04	71-43-2	1d
Carbon tetrachloride	ND ug/L		50.0	10		02/10/10 20:04	56-23-5	
Chloroform	ND ug/L		50.0	10		02/10/10 20:04	67-66-3	
1,1-Dichloroethene	ND ug/L		50.0	10		02/10/10 20:04	75-35-4	
cis-1,2-Dichloroethene	9190 ug/L		500	100		02/10/10 20:36	156-59-2	
trans-1,2-Dichloroethene	130 ug/L		50.0	10		02/10/10 20:04	156-60-5	
Ethylbenzene	ND ug/L		50.0	10		02/10/10 20:04	100-41-4	
Methylene chloride	ND ug/L		50.0	10		02/10/10 20:04	75-09-2	
Naphthalene	ND ug/L		50.0	10		02/10/10 20:04	91-20-3	
Tetrachloroethene	104 ug/L		50.0	10		02/10/10 20:04	127-18-4	
Toluene	ND ug/L		50.0	10		02/10/10 20:04	108-88-3	
1,1,1-Trichloroethane	ND ug/L		50.0	10		02/10/10 20:04	71-55-6	
Trichloroethene	60.6 ug/L		50.0	10		02/10/10 20:04	79-01-6	
Vinyl chloride	13600 ug/L		200	100		02/10/10 20:36	75-01-4	
Xylene (Total)	ND ug/L		100	10		02/10/10 20:04	1330-20-7	
Dibromofluoromethane (S)	120 %		80-123	10		02/10/10 20:04	1868-53-7	D4
4-Bromofluorobenzene (S)	108 %		70-126	10		02/10/10 20:04	460-00-4	
Toluene-d8 (S)	105 %		80-116	10		02/10/10 20:04	2037-26-5	

Date: 02/17/2010 04:10 PM

REPORT OF LABORATORY ANALYSIS

Page 5 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: MMW-P-02	Lab ID: 5034474003	Collected: 02/04/10 09:46	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		02/10/10 06:48	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 06:48	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 06:48	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 06:48	75-35-4	
cis-1,2-Dichloroethene	75.8 ug/L		5.0	1		02/10/10 06:48	156-59-2	
trans-1,2-Dichloroethene	5.8 ug/L		5.0	1		02/10/10 06:48	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 06:48	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 06:48	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 06:48	91-20-3	
Tetrachloroethene	7.4 ug/L		5.0	1		02/10/10 06:48	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 06:48	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 06:48	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 06:48	79-01-6	
Vinyl chloride	104 ug/L		2.0	1		02/10/10 06:48	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 06:48	1330-20-7	
Dibromofluoromethane (S)	113 %		80-123	1		02/10/10 06:48	1868-53-7	
4-Bromofluorobenzene (S)	105 %		70-126	1		02/10/10 06:48	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		02/10/10 06:48	2037-26-5	

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Page 6 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: MMW-P-03S	Lab ID: 5034474004	Collected: 02/04/10 10:18	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	502	mg/L	1.0	1		02/09/10 17:19		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/10/10 07:20	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 07:20	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 07:20	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 07:20	75-35-4	
cis-1,2-Dichloroethene	155	ug/L	5.0	1		02/10/10 07:20	156-59-2	
trans-1,2-Dichloroethene	19.4	ug/L	5.0	1		02/10/10 07:20	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 07:20	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 07:20	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 07:20	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 07:20	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 07:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 07:20	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 07:20	79-01-6	
Vinyl chloride	382	ug/L	20.0	10		02/10/10 07:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 07:20	1330-20-7	
Dibromofluoromethane (S)	123	%	80-123	1		02/10/10 07:20	1868-53-7	
4-Bromofluorobenzene (S)	107	%	70-126	1		02/10/10 07:20	460-00-4	
Toluene-d8 (S)	97	%	80-116	1		02/10/10 07:20	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/05/10 12:53		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	38.4	mg/L	12.5	2.5		02/15/10 11:57	14808-79-8	

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REPORT OF LABORATORY ANALYSIS

Page 7 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: MMW-P-03D	Lab ID: 5034474005	Collected: 02/04/10 10:01	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/10/10 21:08	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 21:08	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 21:08	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 21:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/10 21:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/10 21:08	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 21:08	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 21:08	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 21:08	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 21:08	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 21:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 21:08	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 21:08	79-01-6	
Vinyl chloride	287	ug/L	20.0	10		02/10/10 21:40	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 21:08	1330-20-7	
Dibromofluoromethane (S)	127 %		80-123	1		02/10/10 21:08	1868-53-7	S2
4-Bromofluorobenzene (S)	103 %		70-126	1		02/10/10 21:08	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		02/10/10 21:08	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/05/10 12:50		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	ND	mg/L	5.0	1		02/15/10 11:57	14808-79-8	

Date: 02/17/2010 04:10 PM

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Page 8 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: MMW-P-05	Lab ID: 5034474006	Collected: 02/04/10 10:56	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		02/10/10 22:12	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 22:12	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 22:12	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 22:12	75-35-4	
cis-1,2-Dichloroethene	6.8 ug/L		5.0	1		02/10/10 22:12	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 22:12	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 22:12	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 22:12	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 22:12	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/10/10 22:12	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 22:12	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 22:12	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 22:12	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		02/10/10 22:12	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 22:12	1330-20-7	
Dibromofluoromethane (S)	124 %		80-123	1		02/10/10 22:12	1868-53-7	S2
4-Bromofluorobenzene (S)	106 %		70-126	1		02/10/10 22:12	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		02/10/10 22:12	2037-26-5	

Date: 02/17/2010 04:10 PM

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Page 9 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: MMW-P-06	Lab ID: 5034474007	Collected: 02/04/10 10:39	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/10/10 22:44	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 22:44	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 22:44	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 22:44	75-35-4	
cis-1,2-Dichloroethene	79.1	ug/L	5.0	1		02/10/10 22:44	156-59-2	
trans-1,2-Dichloroethene	11.2	ug/L	5.0	1		02/10/10 22:44	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 22:44	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 22:44	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 22:44	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 22:44	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 22:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 22:44	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 22:44	79-01-6	
Vinyl chloride	1870	ug/L	20.0	10		02/10/10 23:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 22:44	1330-20-7	
Dibromofluoromethane (S)	128 %		80-123	1		02/10/10 22:44	1868-53-7	S2
4-Bromofluorobenzene (S)	108 %		70-126	1		02/10/10 22:44	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		02/10/10 22:44	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/05/10 12:54		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	10.3	mg/L	5.0	1		02/15/10 11:57	14808-79-8	

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REPORT OF LABORATORY ANALYSIS

Page 10 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: MMW-P-07	Lab ID: 5034474008	Collected: 02/04/10 11:44	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		02/10/10 23:48	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 23:48	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 23:48	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 23:48	75-35-4	
cis-1,2-Dichloroethene	555 ug/L		50.0	10		02/10/10 11:36	156-59-2	
trans-1,2-Dichloroethene	12.4 ug/L		5.0	1		02/10/10 23:48	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 23:48	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 23:48	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 23:48	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/10/10 23:48	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 23:48	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 23:48	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 23:48	79-01-6	
Vinyl chloride	1880 ug/L		20.0	10		02/10/10 11:36	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 23:48	1330-20-7	
Dibromofluoromethane (S)	129 %		80-123	1		02/10/10 23:48	1868-53-7	S2
4-Bromofluorobenzene (S)	104 %		70-126	1		02/10/10 23:48	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		02/10/10 23:48	2037-26-5	

Date: 02/17/2010 04:10 PM

REPORT OF LABORATORY ANALYSIS

Page 11 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: MMW-P-08	Lab ID: 5034474009	Collected: 02/04/10 12:13	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	764	mg/L	1.0	1		02/09/10 17:25		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	50.0	10		02/11/10 00:22	71-43-2	1d
Carbon tetrachloride	ND	ug/L	50.0	10		02/11/10 00:22	56-23-5	
Chloroform	ND	ug/L	50.0	10		02/11/10 00:22	67-66-3	
1,1-Dichloroethene	ND	ug/L	50.0	10		02/11/10 00:22	75-35-4	
cis-1,2-Dichloroethene	1140	ug/L	50.0	10		02/11/10 00:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		02/11/10 00:22	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		02/11/10 00:22	100-41-4	
Methylene chloride	ND	ug/L	50.0	10		02/11/10 00:22	75-09-2	
Naphthalene	ND	ug/L	50.0	10		02/11/10 00:22	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		02/11/10 00:22	127-18-4	2d
Toluene	ND	ug/L	50.0	10		02/11/10 00:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		02/11/10 00:22	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		02/11/10 00:22	79-01-6	3d
Vinyl chloride	4860	ug/L	200	100		02/11/10 00:55	75-01-4	
Xylene (Total)	ND	ug/L	100	10		02/11/10 00:22	1330-20-7	
Dibromofluoromethane (S)	123	%	80-123	10		02/11/10 00:22	1868-53-7	S2
4-Bromofluorobenzene (S)	104	%	70-126	10		02/11/10 00:22	460-00-4	
Toluene-d8 (S)	102	%	80-116	10		02/11/10 00:22	2037-26-5	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/09/10 18:39		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	ND	mg/L	5.0	1		02/15/10 11:57	14808-79-8	

Date: 02/17/2010 04:10 PM

REPORT OF LABORATORY ANALYSIS

Page 12 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: MMW-P-10S	Lab ID: 5034474010	Collected: 02/04/10 13:11	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/10/10 12:08	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 12:08	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 12:08	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 12:08	75-35-4	
cis-1,2-Dichloroethene	45.4	ug/L	5.0	1		02/10/10 12:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/10 12:08	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 12:08	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 12:08	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 12:08	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 12:08	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 12:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 12:08	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 12:08	79-01-6	
Vinyl chloride	419	ug/L	20.0	10		02/10/10 17:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 12:08	1330-20-7	
Dibromofluoromethane (S)	118 %		80-123	1		02/10/10 12:08	1868-53-7	
4-Bromofluorobenzene (S)	108 %		70-126	1		02/10/10 12:08	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		02/10/10 12:08	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/05/10 12:55		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	69.2	mg/L	12.5	2.5		02/15/10 11:57	14808-79-8	

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REPORT OF LABORATORY ANALYSIS

Page 13 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: MMW-P-10D	Lab ID: 5034474011	Collected: 02/04/10 12:48	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		02/10/10 17:39	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 17:39	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 17:39	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 17:39	75-35-4	
cis-1,2-Dichloroethene	406 ug/L		50.0	10		02/10/10 18:11	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 17:39	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 17:39	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 17:39	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 17:39	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/10/10 17:39	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 17:39	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 17:39	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 17:39	79-01-6	
Vinyl chloride	2130 ug/L		20.0	10		02/10/10 18:11	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 17:39	1330-20-7	
Dibromofluoromethane (S)	107 %		80-123	1		02/10/10 17:39	1868-53-7	
4-Bromofluorobenzene (S)	99 %		70-126	1		02/10/10 17:39	460-00-4	
Toluene-d8 (S)	106 %		80-116	1		02/10/10 17:39	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

Page 14 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: MMW-P-168D	Lab ID: 5034474012	Collected: 02/04/10 14:38	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/10/10 18:43	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 18:43	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 18:43	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 18:43	75-35-4	
cis-1,2-Dichloroethene	6.3	ug/L	5.0	1		02/10/10 18:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/10 18:43	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 18:43	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 18:43	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 18:43	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 18:43	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 18:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 18:43	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 18:43	79-01-6	
Vinyl chloride	128	ug/L	2.0	1		02/10/10 18:43	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 18:43	1330-20-7	
Dibromofluoromethane (S)	107 %		80-123	1		02/10/10 18:43	1868-53-7	
4-Bromofluorobenzene (S)	98 %		70-126	1		02/10/10 18:43	460-00-4	
Toluene-d8 (S)	105 %		80-116	1		02/10/10 18:43	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/05/10 13:11		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	50.8	mg/L	12.5	2.5		02/15/10 11:57	14808-79-8	

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REPORT OF LABORATORY ANALYSIS

Page 15 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: Dup 1	Lab ID: 5034474013	Collected: 02/04/10 08:00	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	755	mg/L	1.0	1		02/09/10 17:30		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/10/10 19:15	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 19:15	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 19:15	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 19:15	75-35-4	
cis-1,2-Dichloroethene	879	ug/L	50.0	10		02/10/10 19:47	156-59-2	
trans-1,2-Dichloroethene	11.8	ug/L	5.0	1		02/10/10 19:15	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 19:15	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 19:15	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 19:15	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 19:15	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 19:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 19:15	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 19:15	79-01-6	
Vinyl chloride	3100	ug/L	200	100		02/11/10 13:21	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 19:15	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		02/10/10 19:15	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		02/10/10 19:15	460-00-4	
Toluene-d8 (S)	104	%	80-116	1		02/10/10 19:15	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

Page 16 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: Dup 2	Lab ID: 5034474014	Collected: 02/04/10 08:00	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		02/10/10 20:19	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 20:19	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 20:19	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 20:19	75-35-4	
cis-1,2-Dichloroethene	455 ug/L		50.0	10		02/10/10 20:51	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 20:19	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 20:19	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 20:19	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 20:19	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/10/10 20:19	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 20:19	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 20:19	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 20:19	79-01-6	
Vinyl chloride	2240 ug/L		20.0	10		02/10/10 20:51	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 20:19	1330-20-7	
Dibromofluoromethane (S)	108 %		80-123	1		02/10/10 20:19	1868-53-7	
4-Bromofluorobenzene (S)	96 %		70-126	1		02/10/10 20:19	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		02/10/10 20:19	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

Page 17 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034474

Sample: Trip Blank	Lab ID: 5034474015	Collected: 02/04/10 08:00	Received: 02/05/10 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND ug/L		5.0	1		02/10/10 21:23	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 21:23	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 21:23	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 21:23	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 21:23	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 21:23	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 21:23	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 21:23	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 21:23	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/10/10 21:23	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 21:23	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 21:23	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 21:23	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		02/10/10 21:23	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 21:23	1330-20-7	
Dibromofluoromethane (S)	106 %		80-123	1		02/10/10 21:23	1868-53-7	
4-Bromofluorobenzene (S)	96 %		70-126	1		02/10/10 21:23	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		02/10/10 21:23	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

Page 18 of 26

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034474

QC Batch: MSV/21609 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5034474003, 5034474004, 5034474010

METHOD BLANK: 396018 Matrix: Water

Associated Lab Samples: 5034474003, 5034474004, 5034474010

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
1,1,1-Trichloroethane	ug/L	ND	5.0	02/10/10 01:56	
1,1-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Benzene	ug/L	ND	5.0	02/10/10 01:56	
Carbon tetrachloride	ug/L	ND	5.0	02/10/10 01:56	
Chloroform	ug/L	ND	5.0	02/10/10 01:56	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Ethylbenzene	ug/L	ND	5.0	02/10/10 01:56	
Methylene chloride	ug/L	ND	5.0	02/10/10 01:56	
Naphthalene	ug/L	ND	5.0	02/10/10 01:56	
Tetrachloroethene	ug/L	ND	5.0	02/10/10 01:56	
Toluene	ug/L	ND	5.0	02/10/10 01:56	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Trichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Vinyl chloride	ug/L	ND	2.0	02/10/10 01:56	
Xylene (Total)	ug/L	ND	10.0	02/10/10 01:56	
4-Bromofluorobenzene (S)	%	111	70-126	02/10/10 01:56	
Dibromofluoromethane (S)	%	129	80-123	02/10/10 01:56	S3
Toluene-d8 (S)	%	100	80-116	02/10/10 01:56	

LABORATORY CONTROL SAMPLE: 396019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.4	119	69-136	
1,1-Dichloroethene	ug/L	50	65.6	131	63-128	L3
Benzene	ug/L	50	53.3	107	78-127	
Carbon tetrachloride	ug/L	50	53.4	107	62-143	
Chloroform	ug/L	50	56.9	114	74-131	
cis-1,2-Dichloroethene	ug/L	50	56.2	112	74-128	
Ethylbenzene	ug/L	50	50.1	100	81-126	
Methylene chloride	ug/L	50	53.5	107	32-164	
Naphthalene	ug/L	50	57.1	114	61-135	
Tetrachloroethene	ug/L	50	48.5	97	60-119	
Toluene	ug/L	50	48.2	96	75-129	
trans-1,2-Dichloroethene	ug/L	50	60.6	121	71-126	
Trichloroethene	ug/L	50	53.2	106	74-130	
Vinyl chloride	ug/L	50	54.4	109	55-141	
Xylene (Total)	ug/L	150	151	100	76-132	
4-Bromofluorobenzene (S)	%			100	70-126	
Dibromofluoromethane (S)	%			108	80-123	
Toluene-d8 (S)	%			99	80-116	

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REPORT OF LABORATORY ANALYSIS

Page 19 of 26

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034474

QC Batch: MSV/21634 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5034474002, 5034474005, 5034474006, 5034474007, 5034474008, 5034474009

METHOD BLANK: 396230 Matrix: Water

Associated Lab Samples: 5034474002, 5034474005, 5034474006, 5034474007, 5034474008, 5034474009

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
1,1,1-Trichloroethane	ug/L	ND	5.0	02/10/10 14:43	
1,1-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Benzene	ug/L	ND	5.0	02/10/10 14:43	
Carbon tetrachloride	ug/L	ND	5.0	02/10/10 14:43	
Chloroform	ug/L	ND	5.0	02/10/10 14:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Ethylbenzene	ug/L	ND	5.0	02/10/10 14:43	
Methylene chloride	ug/L	ND	5.0	02/10/10 14:43	
Naphthalene	ug/L	ND	5.0	02/10/10 14:43	
Tetrachloroethene	ug/L	ND	5.0	02/10/10 14:43	
Toluene	ug/L	ND	5.0	02/10/10 14:43	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Trichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Vinyl chloride	ug/L	ND	2.0	02/10/10 14:43	
Xylene (Total)	ug/L	ND	10.0	02/10/10 14:43	
4-Bromofluorobenzene (S)	%	105	70-126	02/10/10 14:43	
Dibromofluoromethane (S)	%	111	80-123	02/10/10 14:43	
Toluene-d8 (S)	%	106	80-116	02/10/10 14:43	

LABORATORY CONTROL SAMPLE: 396231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.3	109	69-136	
1,1-Dichloroethene	ug/L	50	60.3	121	63-128	
Benzene	ug/L	50	48.6	97	78-127	
Carbon tetrachloride	ug/L	50	48.9	98	62-143	
Chloroform	ug/L	50	52.6	105	74-131	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	74-128	
Ethylbenzene	ug/L	50	52.6	105	81-126	
Methylene chloride	ug/L	50	50.5	101	32-164	
Naphthalene	ug/L	50	51.5	103	61-135	
Tetrachloroethene	ug/L	50	50.8	102	60-119	
Toluene	ug/L	50	50.0	100	75-129	
trans-1,2-Dichloroethene	ug/L	50	56.4	113	71-126	
Trichloroethene	ug/L	50	49.8	100	74-130	
Vinyl chloride	ug/L	50	50.5	101	55-141	
Xylene (Total)	ug/L	150	155	103	76-132	
4-Bromofluorobenzene (S)	%			101	70-126	
Dibromofluoromethane (S)	%			106	80-123	
Toluene-d8 (S)	%			110	80-116	

Date: 02/17/2010 04:10 PM

REPORT OF LABORATORY ANALYSIS

Page 20 of 26

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034474

MATRIX SPIKE SAMPLE: 396256

Parameter	Units	5034555002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	41.3	83	64-143	
1,1-Dichloroethene	ug/L	ND	50	48.9	98	55-140	
Benzene	ug/L	ND	50	37.0	74	63-141	
Carbon tetrachloride	ug/L	ND	50	38.1	76	54-145	
Chloroform	ug/L	ND	50	39.9	80	67-134	
cis-1,2-Dichloroethene	ug/L	ND	50	39.5	79	65-132	
Ethylbenzene	ug/L	ND	50	38.8	78	44-151	
Methylene chloride	ug/L	ND	50	37.1	74	46-154	
Naphthalene	ug/L	ND	50	34.4	69	44-138	
Tetrachloroethene	ug/L	ND	50	37.4	75	25-146	
Toluene	ug/L	ND	50	36.8	74	59-142	
trans-1,2-Dichloroethene	ug/L	ND	50	42.6	85	60-137	
Trichloroethene	ug/L	ND	50	39.1	78	61-137	
Vinyl chloride	ug/L	ND	50	40.0	80	51-144	
Xylene (Total)	ug/L	ND	150	117	78	44-152	
4-Bromofluorobenzene (S)	%				102	70-126	
Dibromofluoromethane (S)	%				104	80-123	
Toluene-d8 (S)	%				105	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 396257 396258

Parameter	Units	5034474006		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		
		Spike Result	Conc.	Spike Conc.	MS Result				RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	61.1	61.1	122	122	64-143	.008	20
1,1-Dichloroethene	ug/L	ND	50	50	72.1	82.8	144	166	55-140	14	20 M0
Benzene	ug/L	ND	50	50	51.2	53.1	102	106	63-141	4	20
Carbon tetrachloride	ug/L	ND	50	50	55.7	56.9	111	114	54-145	2	20
Chloroform	ug/L	ND	50	50	57.5	58.0	115	116	67-134	.9	20
cis-1,2-Dichloroethene	ug/L	6.8	50	50	67.2	67.6	121	122	65-132	.5	20
Ethylbenzene	ug/L	ND	50	50	47.6	49.3	95	99	44-151	4	20
Methylene chloride	ug/L	ND	50	50	52.6	55.7	105	111	46-154	6	20
Naphthalene	ug/L	ND	50	50	46.9	48.0	94	96	44-138	2	20
Tetrachloroethene	ug/L	ND	50	50	46.8	45.5	94	91	25-146	3	20
Toluene	ug/L	ND	50	50	45.6	45.4	91	91	59-142	.5	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	62.7	63.6	125	127	60-137	1	20
Trichloroethene	ug/L	ND	50	50	53.6	52.0	107	104	61-137	3	20
Vinyl chloride	ug/L	ND	50	50	58.0	61.6	113	120	51-144	6	20
Xylene (Total)	ug/L	ND	150	150	146	149	97	99	44-152	2	20
4-Bromofluorobenzene (S)	%						102	101	70-126		20
Dibromofluoromethane (S)	%						116	116	80-123		20
Toluene-d8 (S)	%						101	98	80-116		20

QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034474

QC Batch: MSV/21638 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5034474011, 5034474012, 5034474013, 5034474014, 5034474015

METHOD BLANK: 396244 Matrix: Water

Associated Lab Samples: 5034474011, 5034474012, 5034474013, 5034474014, 5034474015

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
1,1,1-Trichloroethane	ug/L	ND	5.0	02/10/10 14:57	
1,1-Dichloroethene	ug/L	ND	5.0	02/10/10 14:57	
Benzene	ug/L	ND	5.0	02/10/10 14:57	
Carbon tetrachloride	ug/L	ND	5.0	02/10/10 14:57	
Chloroform	ug/L	ND	5.0	02/10/10 14:57	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:57	
Ethylbenzene	ug/L	ND	5.0	02/10/10 14:57	
Methylene chloride	ug/L	ND	5.0	02/10/10 14:57	
Naphthalene	ug/L	ND	5.0	02/10/10 14:57	
Tetrachloroethene	ug/L	ND	5.0	02/10/10 14:57	
Toluene	ug/L	ND	5.0	02/10/10 14:57	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:57	
Trichloroethene	ug/L	ND	5.0	02/10/10 14:57	
Vinyl chloride	ug/L	ND	2.0	02/10/10 14:57	
Xylene (Total)	ug/L	ND	10.0	02/10/10 14:57	
4-Bromofluorobenzene (S)	%	97	70-126	02/10/10 14:57	
Dibromofluoromethane (S)	%	100	80-123	02/10/10 14:57	
Toluene-d8 (S)	%	103	80-116	02/10/10 14:57	

LABORATORY CONTROL SAMPLE: 396245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.7	95	69-136	
1,1-Dichloroethene	ug/L	50	56.3	113	63-128	
Benzene	ug/L	50	47.1	94	78-127	
Carbon tetrachloride	ug/L	50	48.6	97	62-143	
Chloroform	ug/L	50	50.5	101	74-131	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	74-128	
Ethylbenzene	ug/L	50	50.1	100	81-126	
Methylene chloride	ug/L	50	48.6	97	32-164	
Naphthalene	ug/L	50	46.6	93	61-135	
Tetrachloroethene	ug/L	50	46.0	92	60-119	
Toluene	ug/L	50	47.2	94	75-129	
trans-1,2-Dichloroethene	ug/L	50	51.7	103	71-126	
Trichloroethene	ug/L	50	48.8	98	74-130	
Vinyl chloride	ug/L	50	47.5	95	55-141	
Xylene (Total)	ug/L	150	154	102	76-132	
4-Bromofluorobenzene (S)	%			105	70-126	
Dibromofluoromethane (S)	%			103	80-123	
Toluene-d8 (S)	%			104	80-116	

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REPORT OF LABORATORY ANALYSIS

Page 22 of 26

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034474

QC Batch:	WETA/4642	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples:	5034474004, 5034474005, 5034474007, 5034474010, 5034474012		

METHOD BLANK: 394946 Matrix: Water

Associated Lab Samples: 5034474004, 5034474005, 5034474007, 5034474010, 5034474012

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Nitrogen, Nitrate	mg/L	ND	0.10	02/05/10 12:48	

LABORATORY CONTROL SAMPLE: 394947

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Nitrogen, Nitrate	mg/L	2	2.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 394948 394949

Parameter	Units	5034474005	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
			Spike	Spike	Result	Conc.	Result	Result	% Rec	% Rec	Limits			
Nitrogen, Nitrate	mg/L	ND	2	2	1.8	1.8	89	89	90-110	.2	20	M3		

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REPORT OF LABORATORY ANALYSIS

Page 23 of 26

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034474

QC Batch:	WETA/4653	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
Associated Lab Samples:	5034474009		

METHOD BLANK: 395810 Matrix: Water

Associated Lab Samples: 5034474009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	0.10	02/09/10 18:37	

LABORATORY CONTROL SAMPLE: 395811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	4	3.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 395812 395813

Parameter	Units	5034490003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Nitrogen, NO ₂ plus NO ₃	mg/L	2.0	4	4	6.0	6.0	100	99	90-110	.6	20	

QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034474

QC Batch: WETA/4663 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5034474004, 5034474005, 5034474007, 5034474009, 5034474010, 5034474012

METHOD BLANK: 397046 Matrix: Water

Associated Lab Samples: 5034474004, 5034474005, 5034474007, 5034474009, 5034474010, 5034474012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	02/15/10 11:57	

LABORATORY CONTROL SAMPLE: 397047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 397048 397049

Parameter	5034456001		MS		MSD		MS		MSD		% Rec		Max	
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	Limits	RPD	RPD	Qual		
Sulfate	mg/L	82.9	100	100	171	174	89	91	75-125	1	20			



QUALIFIERS

Project: Michigan Plaza
Pace Project No.: 5034474

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

- 1d Benzene evaluated to 5ug/L estimated RL. aa 2/11/10
- 2d PCE evaluated to 5ug/L estimated RL. aa 2/11/10
- 3d TCE evaluated to 5ug/L estimated RL. aa 2/11/10
- D4 Sample was diluted due to the presence of high levels of target analytes.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.
- S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
- S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Abundant Resources Address: 110 S. Dwyer Ave City: Tinley Park, IL Email ID: 466289		Report To: Leesa Lother Copy To: _____ Purchase Order No.: 317-430-9205 Project Name: Michigan Trace Project Number: M-005 Phone: 317-430-9205 Fax: 317-430-9205 Requested Due Date/TAT: 4/30/05		Attention: Leesa Lother Company Name: Markel Address: _____ Phone/Quote Reference: _____ Project Manager: _____ Pace Profile #: _____	
				REGULATORY AGENCY <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
				Site Location: IN State: IN	
				Residual Chlorine (Y/N)	
				Pace Project No./Lab I.D.	
				5034474	
				Requested Analysis Filtered (Y/N)	
				Analysis Test Y/N	
				Preservatives	
				# OF CONTAINERS	
				SAMPLE TEMP AT COLLECTION	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				MATRIX CODE	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	
				COMPOSITE START	
				Preservatives	
				Other	
				NaOH	
				HCl	
				HNO ₃	
				H ₂ SO ₄	
				Na ₂ SO ₃	
				Methanol	
				WIP	
				AR	
				TS	
				OT	
				MATRIX CODES (see valid codes to left)	
				SAMPLE TYPE (G-DRAB-C-COMP)	
				TIME	
				DATE	
				TIME	
				DATE	
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				TIME	
				DATE	
				COLLECTED	
				COMPOSITE (INDIVIDUAL)	



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																																																																																																																																																																																													
Company: Mundell & Associates	Report To: Lester Lotthe	Attention: Michele Mandel	Company Name: Mandell	REGULATORY AGENCY																																																																																																																																																																																																																																																													
Address: 110 S. Downing	Copy To: Tulsa, EN 46219	Address: Purchase Order No.:	NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER																																																																																																																																																																																																																																																													
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*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for amounts not paid within 30 days.

F-ALL-Q-020 (Rev. 07, 15-May-2007)

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell & Assoc. Project # 5034474

Courier: FedEx UPS USPS Client Commercial Pace Other
Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None Other foamThermometer Used 23456 Type of Ice: Wet Blue None Samples on ice, cooling process has begunCooler Temperature 2.9°C Biological Tissue is Frozen: Yes No Date and Initials of person examining contents: 02/05/10 BO

Temp should be above freezing to 6°C Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. Nitrate BO
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	On chain mmw-p-07 supposedly has 2 plastics but mmw-p-08 actually has the 2 plastics BO
-Includes date/time/ID/Analysis Matrix: Water		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Andy Dammerg Date/Time: 2/5/10 via Voicemail

Comments/ Resolution:

mmw-p-07 Should only get VOC
mmw-p-08 Should get all analyses

Project Manager Review:

J. Sanger

Date: 2/5/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Sample Container Count

CLIENT: Nundell & Associates

COC PAGE 1 of 2
COC ID# 1339815

Project # 5034474

Pace Analytical
Waste, Contaminated Items

Sample Line	DG9H	AG1U	WG FU R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1								1					
2	3												
3	3												
4	3												
5	3												
6	1												
7	3												
8	3												
9	3												
10	3												
11	3												
12	3												

Container Codes

DG9H	40mL HCl amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	BP1S	1 liter H2SO4 plastic	BP1U	1 liter HCl amber glass	BP1T	1 liter H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H2SO4 plastic	BP1T	1 liter H2SO4 plastic	BP1U	1 liter unpreserved plastic	BP1Z	1 liter unpreserved plastic	BP1Z	1 liter NaOH, Zn, Ac	DG9S	40mL H2SO4 amber vial
WG FU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	BP1Z	1 liter Thiosulfate amber gl	BP1Z	1 liter Na Thio amber vial	BP1Z	1 liter Na Thio amber vial	BP1Z	1 liter NaOH, Zn, Ac	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter Na Thio amber vial	BP1Z	1 liter unpreserved amber	DG9U	40mL unpreserved amber vial						
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	JGFU	4oz unpreserved amber wide								
BP2U	500ml unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	VG9H	40mL HCl, clear vial								
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can								
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOH, Asc Acid plastic	VG9H	40mL HCl, clear vial								
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio, clear vial								
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial								
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassette	VSG	Headspace septa vial & HCl								
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe								
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag	ZPLC	Ziploc Bag						

CLIENT: Mundell & Assoc.

Sample Container Count

COC PAGE 2 of 2
COC ID# 123

Project # 5034474

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3						1						
2	3												
3	3												
4													
5													
6													
7													
8													
9													
10													
11													
12													

Container Codes

DG9H	40mL HCl amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JG FU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOH, Asc Acid plastic	VG9H	40mL HCl clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio, clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassette	VSG	Headspace septa vial & HCl
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

February 17, 2010

Ms. Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

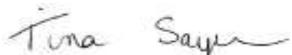
RE: Project: Michigan Plaza
Pace Project No.: 5034667

Dear Ms. Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

7726 Moller Road Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

cc: Jelling Lai, Mundell & Associates

REPORT OF LABORATORY ANALYSIS

Page 1 of 8

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SAMPLE SUMMARY

Project: Michigan Plaza
Pace Project No.: 5034667

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5034667001	MMW-P-04	Water	02/12/10 13:40	02/15/10 11:15
5034667002	Trip Blank	Water	02/12/10 08:00	02/15/10 11:15

REPORT OF LABORATORY ANALYSIS

Page 2 of 8

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza
Pace Project No.: 5034667

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5034667001	MMW-P-04	EPA 8260	RSR	18
5034667002	Trip Blank	EPA 8260	RSR	18

REPORT OF LABORATORY ANALYSIS

Page 3 of 8

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034667

Sample: MMW-P-04	Lab ID: 5034667001	Collected: 02/12/10 13:40	Received: 02/15/10 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/16/10 16:15	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/10 16:15	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/10 16:15	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/10 16:15	75-35-4	
cis-1,2-Dichloroethene	144	ug/L	5.0	1		02/16/10 16:15	156-59-2	
trans-1,2-Dichloroethene	8.3	ug/L	5.0	1		02/16/10 16:15	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/10 16:15	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/16/10 16:15	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/16/10 16:15	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/16/10 16:15	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/10 16:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/10 16:15	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/10 16:15	79-01-6	
Vinyl chloride	224	ug/L	2.0	1		02/16/10 16:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/10 16:15	1330-20-7	
Dibromofluoromethane (S)	99	%	80-123	1		02/16/10 16:15	1868-53-7	
4-Bromofluorobenzene (S)	97	%	70-126	1		02/16/10 16:15	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		02/16/10 16:15	2037-26-5	

Date: 02/17/2010 04:10 PM

REPORT OF LABORATORY ANALYSIS

Page 4 of 8

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5034667

Sample: Trip Blank	Lab ID: 5034667002	Collected: 02/12/10 08:00	Received: 02/15/10 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/16/10 17:28	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/10 17:28	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/10 17:28	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/10 17:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/10 17:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/10 17:28	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/10 17:28	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/16/10 17:28	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/16/10 17:28	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/16/10 17:28	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/10 17:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/10 17:28	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/10 17:28	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/16/10 17:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/10 17:28	1330-20-7	
Dibromofluoromethane (S)	98 %		80-123	1		02/16/10 17:28	1868-53-7	
4-Bromofluorobenzene (S)	98 %		70-126	1		02/16/10 17:28	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		02/16/10 17:28	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

Page 5 of 8

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034667

QC Batch: MSV/21723 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5034667001, 5034667002

METHOD BLANK: 397550 Matrix: Water

Associated Lab Samples: 5034667001, 5034667002

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
1,1,1-Trichloroethane	ug/L	ND	5.0	02/16/10 15:02	
1,1-Dichloroethene	ug/L	ND	5.0	02/16/10 15:02	
Benzene	ug/L	ND	5.0	02/16/10 15:02	
Carbon tetrachloride	ug/L	ND	5.0	02/16/10 15:02	
Chloroform	ug/L	ND	5.0	02/16/10 15:02	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/16/10 15:02	
Ethylbenzene	ug/L	ND	5.0	02/16/10 15:02	
Methylene chloride	ug/L	ND	5.0	02/16/10 15:02	
Naphthalene	ug/L	ND	5.0	02/16/10 15:02	
Tetrachloroethene	ug/L	ND	5.0	02/16/10 15:02	
Toluene	ug/L	ND	5.0	02/16/10 15:02	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/16/10 15:02	
Trichloroethene	ug/L	ND	5.0	02/16/10 15:02	
Vinyl chloride	ug/L	ND	2.0	02/16/10 15:02	
Xylene (Total)	ug/L	ND	10.0	02/16/10 15:02	
4-Bromofluorobenzene (S)	%	95	70-126	02/16/10 15:02	
Dibromofluoromethane (S)	%	100	80-123	02/16/10 15:02	
Toluene-d8 (S)	%	101	80-116	02/16/10 15:02	

LABORATORY CONTROL SAMPLE: 397551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	42.8	86	69-136	
1,1-Dichloroethene	ug/L	50	46.7	93	63-128	
Benzene	ug/L	50	44.6	89	78-127	
Carbon tetrachloride	ug/L	50	40.0	80	62-143	
Chloroform	ug/L	50	45.0	90	74-131	
cis-1,2-Dichloroethene	ug/L	50	43.7	87	74-128	
Ethylbenzene	ug/L	50	45.7	91	81-126	
Methylene chloride	ug/L	50	40.6	81	32-164	
Naphthalene	ug/L	50	43.1	86	61-135	
Tetrachloroethene	ug/L	50	41.4	83	60-119	
Toluene	ug/L	50	44.5	89	75-129	
trans-1,2-Dichloroethene	ug/L	50	47.3	95	71-126	
Trichloroethene	ug/L	50	45.3	91	74-130	
Vinyl chloride	ug/L	50	56.4	113	55-141	
Xylene (Total)	ug/L	150	129	86	76-132	
4-Bromofluorobenzene (S)	%			103	70-126	
Dibromofluoromethane (S)	%			97	80-123	
Toluene-d8 (S)	%			102	80-116	

Date: 02/17/2010 04:10 PM

REPORT OF LABORATORY ANALYSIS

Page 6 of 8

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034667

Parameter	Units	5034683006		MS		MSD		MS		MSD		% Rec		Max	
		Result	Spike Conc.	Spike Conc.	Result	MSD	Result	MS % Rec	MSD % Rec	Limits	RPD	RPD	Qual		
1,1,1-Trichloroethane	ug/L	ND	50	50	41.7	51.8	83	104	64-143	22	20				
1,1-Dichloroethene	ug/L	ND	50	50	46.8	57.2	94	114	55-140	20	20				
Benzene	ug/L	ND	50	50	41.9	51.6	84	103	63-141	21	20				
Carbon tetrachloride	ug/L	ND	50	50	37.7	46.2	75	92	54-145	20	20				
Chloroform	ug/L	ND	50	50	43.3	52.9	87	106	67-134	20	20				
cis-1,2-Dichloroethene	ug/L	ND	50	50	42.9	52.0	86	104	65-132	19	20				
Ethylbenzene	ug/L	ND	50	50	35.1	42.1	70	84	44-151	18	20				
Methylene chloride	ug/L	ND	50	50	40.2	49.4	80	99	46-154	21	20				
Naphthalene	ug/L	ND	50	50	41.3	48.4	83	97	44-138	16	20				
Tetrachloroethene	ug/L	ND	50	50	34.0	40.6	68	81	25-146	18	20				
Toluene	ug/L	ND	50	50	38.7	46.4	77	92	59-142	18	20				
trans-1,2-Dichloroethene	ug/L	ND	50	50	45.2	55.1	90	110	60-137	20	20				
Trichloroethene	ug/L	ND	50	50	40.7	48.9	81	98	61-137	18	20				
Vinyl chloride	ug/L	ND	50	50	58.4	70.1	117	140	51-144	18	20				
Xylene (Total)	ug/L	ND	150	150	101	121	67	80	44-152	18	20				
4-Bromofluorobenzene (S)	%						101	102	70-126		20				
Dibromofluoromethane (S)	%						99	100	80-123		20	1d			
Toluene-d8 (S)	%						100	99	80-116		20				

Date: 02/17/2010 04:10 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 8

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QUALIFIERS

Project: Michigan Plaza
Pace Project No.: 5034667

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

1d RPD value was outside control limits for several compounds. Refer to batch QC for control. RSR 02/17/10

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Sample Condition Upon Receipt

Client Name: Mundell & Associates Project # 5034667Courier: FedEx UPS USPS Client Commercial Pace Other
Tracking #: _____

Optional
Pre-leave Date:
Proj. Name:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None OtherThermometer Used 123456 Type of Ice: Wet Blue None Samples on ice, cooling process has begunCooler Temperature 113 Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6°C

Comments: _____

Date and Initials of person examining
contents: 2/15/10 ZT

Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>Water</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

_____Project Manager Review: J. DagueDate: 2/15/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

CLIENT: Mundell & Assoc.

Sample Container Count

COC PAGE 1 of 1
COC ID# 1320267

Project # 3034467

Sample Line

Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	2											
2	3											
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	BP1S	1 liter H2SO4 plastic	BP1U	1 liter unpreserved plastic	BP1Z	1 liter Na Thio, Zn, Ac	DG9P	40mL TSP amber vial
AG1U	1 liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP2A	500mL NaOH, Asc Acid plastic	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	BP2U	500mL HNO3 plastic	JGFU	4oz unpreserved amber wide
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP22	500mL NaOH, Zn Ac	BP23	250mL NaOH, Asc Acid plastic	BP24	500mL NaOH plastic	BP2S	500mL H2SO4 amber glass	VG9H	40mL HCl clear vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP3A	250mL NaOH, Asc Acid plastic	BP3C	250mL NaOH plastic	BP3Z	250mL NaOH, Zn Ac plastic	BP3U	250mL unpreserved plastic	VG9T	40mL Na Thio, clear vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP3U	250mL unpreserved plastic	BP3S	1 liter HCl clear glass	BP3V	1 liter H2SO4 clear glass	BP3W	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP4A	250mL NaOH, Asc Acid plastic	BP4B	250mL NaOH, Asc Acid plastic	BP4C	250mL NaOH, Asc Acid plastic	BP4D	250mL NaOH, Asc Acid plastic	VSG	Headspace septa vial & HCl
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP4E	250mL NaOH, Asc Acid plastic	BP4F	250mL NaOH, Asc Acid plastic	BP4G	250mL NaOH, Asc Acid plastic	BP4H	250mL NaOH, Asc Acid plastic	WGFX	4oz wide jar w/hexane wipe
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP4I	1 liter Na Thiosulfate clear gla	BP4J	1 liter Na Thiosulfate clear gla	BP4K	C Air Cassettes	BP4L	1 liter Na Bisulfite amber vial	DG9M	40mL MeOH clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP4M	1 liter Na Bisulfite amber vial	BP4N	1 liter Na Bisulfite amber vial	BP4O	1 liter NaOH, Asc Acid plastic	BP4P	1 liter NaOH, Asc Acid plastic	ZPLC	Ziploc Bag
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP4Q	1 liter NaOH, Asc Acid plastic	BP4R	1 liter NaOH, Asc Acid plastic	BP4S	1 liter NaOH, Asc Acid plastic	BP4T	1 liter NaOH, Asc Acid plastic		
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	BP4U	1 liter unpreserved plastic	BP4V	1 liter unpreserved plastic	BP4W	1 liter unpreserved plastic	BP4X	1 liter unpreserved plastic		
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	BP4Y	1 liter unpreserved plastic	BP4Z	1 liter unpreserved plastic	BP5A	1 liter unpreserved plastic	BP5B	1 liter unpreserved plastic		
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	BP5C	1 liter unpreserved plastic	BP5D	1 liter unpreserved plastic	BP5E	1 liter unpreserved plastic	BP5F	1 liter unpreserved plastic		

APPENDIX B

Air Mitigation Systems: Pounds of Contaminants Removed

Air Mitigation System - Historical Air Analytical Results
 Michigan Plaza
 Indianapolis, Indiana
 MUNDELL Project No.: M01046

Sample Date	Perchloroethylene (PCE)											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4				
	(ppmv)				(ppm)				(µg/m³)			
9/21/2006	0.6300	0.7900	0.6700	0.2800	0.0043	0.0054	0.0046	0.0019	4281.48	5368.84	4553.32	1902.88
10/6/2006	0.8800	0.6700	0.9700	0.3100	0.0060	0.0046	0.0066	0.0021	5980.48	4553.32	6592.12	2106.76
10/13/2006	0.6800	0.3600	0.5200	0.2100	0.0046	0.0024	0.0035	0.0014	4621.28	2446.56	3633.92	1427.16
10/20/2006	0.8700	0.5500	0.8900	0.2200	0.0059	0.0037	0.0060	0.0015	5912.52	3737.80	6048.44	1495.12
11/17/2006	0.8100	0.4700	0.7800	0.1500	0.0055	0.0032	0.0053	0.0010	5504.76	3194.12	5300.88	1019.40
12/27/2006	0.7400	0.4700	0.7500	0.1100	0.0050	0.0032	0.0051	0.0007	5029.04	3194.12	5097.00	747.56
3/30/2007	0.5100	0.1800	0.5700	0.0310	0.0035	0.0012	0.0039	0.0002	3465.96	1223.28	3873.72	210.68
6/15/2007	0.0050	0.3100	0.2100	0.4600	0.0000	0.0021	0.0014	0.0031	33.98	2106.76	1427.16	3126.16
10/16/2007	0.3900	0.2400	0.2800	0.0670	0.0027	0.0016	0.0019	0.0005	2650.44	1631.04	1902.88	455.33
12/14/2007	0.5800	0.3400	0.5200	0.1400	0.0039	0.0023	0.0035	0.0010	3941.68	2310.64	3533.92	951.44
3/27/2008	0.5500	NS	0.5600	0.0740	0.0037	NS	0.0038	0.0005	3737.80	NS	3805.76	502.90
4/1/2008	NS	0.3600	NS	NS	NS	0.0024	NS	NS	2446.56	NS	NS	NS
6/2/2008	0.7200	0.5600	0.4900	0.1000	0.0049	0.0038	0.0033	0.0007	4893.12	3805.76	3330.04	679.60
9/12/2008	0.4800	0.4700	0.5300	0.1300	0.0033	0.0032	0.0036	0.0009	3262.08	3194.12	3601.88	883.48
11/26/2008	0.4600	NS	0.3600	0.1100	0.0031	NS	0.0024	0.0007	3126.16	NS	2446.56	747.56
3/24/2009	0.4500	NS	0.5500	0.0050	0.0031	NS	0.0037	0.0000	3058.20	NS	3737.80	33.98
6/15/2009	0.4300	NS	0.4200	0.0200	0.0029	NS	0.0029	0.0001	2922.28	NS	2854.32	135.92
8/21/2009	0.3600	0.1600	0.4700	0.0140	0.0024	0.0011	0.0032	0.0001	2446.56	1087.36	3194.12	95.14
11/5/2009	0.3300	0.1400	0.4100	0.0050	0.0022	0.0010	0.0028	0.0000	2242.68	951.44	2786.36	33.98
2/5/2010	0.1600	0.0370	0.1400	0.0120	0.0011	0.0003	0.0010	0.0001	1087.36	251.45	951.44	81.55

NS = Not Sampled

italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Air Mitigation - Historical Air Analytical Results
 Michigan Plaza
 Indianapolis, Indiana
 MUNDELL Project No.: M01046

Sample Date	Trichloroethylene (TCE)											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)								(µg/m ³)			
9/21/2006	0.0240	0.0120	0.0050	0.0050	0.0001	0.0001	0.0000	0.0000	129.24	64.62	26.93	26.93
10/6/2006	0.0120	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	64.62	26.93	26.93	26.93
10/13/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
10/20/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
11/17/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
12/27/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
3/30/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
6/15/2007	0.4600	0.0050	0.0050	0.0050	0.0025	0.0000	0.0000	0.0000	2,477.10	26.93	26.93	26.93
10/16/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
12/14/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
3/27/2008	0.0050	NS	0.0050	0.0000	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93
4/1/2008	NS	0.0050	NS	NS	NS	NS	0.0000	NS	NS	NS	NS	NS
6/2/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
9/12/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
11/26/2008	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93
3/24/2009	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93
6/15/2009	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93
8/21/2009	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
11/5/2009	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
2/5/2010	0.0014	0.0050	0.0012	0.0050	0.0000	0.0000	0.0000	0.0000	7.54	26.93	6.46	26.93

NS = Not sampled

italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/12 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Air Mitigation - Historical Air Analytical Results
 Michigan Plaza
 Indianapolis, Indiana
 MUNDELL Project No.: M01046

Sample Date	Vinyl Chloride											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				(µg/m³)			
9/21/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/6/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/13/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/20/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
11/17/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
12/27/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
3/30/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
6/15/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/16/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
12/14/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
3/27/2008	NS	0.0150	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	38.42	38.42	38.42
4/1/2008	NS	0.0150	NS	NS	NS	NS	NS	NS	38.42	38.42	38.42	38.42
6/2/2008	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
9/12/2008	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
11/26/2008	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	38.42	38.42	38.42
3/24/2009	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	38.42	38.42	38.42
6/15/2009	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	38.42	38.42	38.42
8/21/2009	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
11/5/2009	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
2/5/2010	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42

NS = Not sampled

italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Air Mitigation - Historical Air Analytical Results
 Michigan Plaza
 Indianapolis, Indiana
 MUNDELL Project No.: M01046

Sample Date	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				(µg/m³)			
9/21/2006	0.1400	0.0100	0.0100	0.0100	0.0006	0.0000	0.0000	0.0000	556.22	39.73	39.73	39.73
10/6/2006	0.0300	0.0100	0.0100	0.0100	0.0001	0.0000	0.0000	0.0000	119.19	39.73	39.73	39.73
10/13/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
10/20/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
11/17/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
12/27/2006	0.0240	0.0100	0.0100	0.0001	0.0000	0.0000	0.0000	0.0000	95.35	39.73	39.73	39.73
3/30/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
6/15/2007	0.2100	0.0100	0.0100	0.0100	0.0008	0.0000	0.0000	0.0000	834.33	39.73	39.73	39.73
10/16/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
12/14/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
3/27/2008	0.0340	NS	0.0100	0.0100	0.0001	NS	0.0000	0.0000	135.08	NS	39.73	39.73
4/1/2008	NS	0.0100	NS	NS	0.0000	NS	NS	NS	39.73	NS	NS	NS
6/2/2008	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
9/12/2008	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
11/26/2008	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73
3/24/2009	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73
6/15/2009	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73
8/21/2009	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
11/5/2009	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
2/5/2010	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73

NS = Not sampled

italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Air Mitigation System - Historical Air Analytical Results
Michigan Meadows Apartments
Indianapolis, Indiana
MUNDELL Project No.: M01046

Sample Date	Perchloroethylene (PCE)					
	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)		
3/27/2008	0.1300	1.2000	NS	0.0009	0.0082	NS
3/28/2008	0.0730	0.4900	NS	0.0005	0.0033	NS
4/7/2008	NS	NS	0.0760	NS	0.0005	NS
4/8/2008	NS	NS	0.0470	NS	0.0003	NS
4/24/2008	0.0540	0.1100	0.0220	0.0004	0.0007	0.0001
5/1/2008	0.0580	0.2100	0.0390	0.0004	0.0014	0.0003
6/2/2008	0.0590	0.2200	0.0530	0.0004	0.0015	0.0004
7/10/2008	0.0650	NS	0.0540	0.0004	NS	0.0004
8/20/2008	NS	0.2700	NS	NS	0.0018	NS
9/12/2008	0.0690	0.1800	0.0540	0.0005	0.0012	0.0004
11/26/2008	0.0720	0.1100	0.0560	0.0005	0.0007	0.0004
3/24/2009	0.2100	0.1300	0.0590	0.0014	0.0009	0.0004
6/15/2009	0.0580	0.0840	0.0050	0.0004	0.0006	0.0000
8/21/2009	0.0630	0.0710	0.0050	0.0004	0.0005	0.0000
11/15/2009	0.1300	0.1100	0.0050	0.0009	0.0007	0.0000
2/5/2010	0.0220	0.0800	0.0022	0.0001	0.0005	0.0000

NS = Not sampled.

italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and *cis*-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Sample Date	Trichloroethylene (TCE)					
	B-5 (ppmv)	B-6 (ppmv)	B-7 (ppmv)	B-5 (ppm)	B-6 (ppm)	B-7 (ppm)
3/27/2008	0.0050	0.0050	NS	0.0000	0.0000	NS
3/28/2008	0.0050	0.0050	NS	0.0000	0.0000	NS
4/7/2008	NS	NS	0.0050	NS	0.0000	NS
4/8/2008	NS	NS	0.0050	NS	0.0000	NS
4/24/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000
5/1/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000
6/2/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000
7/10/2008	0.0050	NS	0.0050	0.0000	NS	0.0000
8/20/2008	NS	0.0050	NS	NS	0.0000	NS
9/12/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000
11/26/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000
3/24/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000
6/15/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000
8/21/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000
11/15/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000
2/5/2010	0.0016	0.0011	0.0050	0.0000	0.0000	0.0000

NS = Not sampled

italic = Reported values are below laboratory detection limits.
Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Sample Date	Vinyl Chloride					
	B-5 <i>(ppmv)</i>	B-6 <i>(ppmv)</i>	B-7 <i>(ppm)</i>	B-5 <i>(ppm)</i>	B-7 <i>(ppm)</i>	B-5 <i>(µg/m³)</i>
3/27/2008	0.0150	0.0150	NS	0.0000	0.0000	NS
3/28/2008	0.0150	0.0150	NS	0.0000	0.0000	NS
4/7/2008	NS	NS	0.0150	NS	0.0000	NS
4/8/2008	NS	NS	0.0150	NS	0.0000	NS
4/24/2008	0.0150	0.0150	0.0150	0.0000	0.0000	38.42
5/1/2008	0.0150	0.0150	0.0150	0.0000	0.0000	38.42
6/2/2008	0.0150	0.0150	0.0150	0.0000	0.0000	38.42
7/10/2008	0.0150	NS	0.0150	0.0000	NS	38.42
8/20/2008	NS	0.0150	NS	NS	0.0000	38.42
9/12/2008	0.0150	0.0150	0.0150	0.0000	0.0000	38.42
11/26/2008	0.0150	0.0150	0.0150	0.0000	0.0000	38.42
3/24/2009	0.0150	0.0150	0.0150	0.0000	0.0000	38.42
6/15/2009	0.0150	0.0150	0.0150	0.0000	0.0000	38.42
8/21/2009	0.0150	0.0150	0.0150	0.0000	0.0000	38.42
11/15/2009	0.0150	0.0150	0.0150	0.0000	0.0000	38.42
2/5/2010	0.0150	0.0150	0.0150	0.0000	0.0000	38.42

NS = Not sampled
italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and *cis*-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Sample Date	cis-1,2-Dichloroethylene					
	B-5 <i>(ppmv)</i>	B-6 <i>(ppmv)</i>	B-7 <i>(ppmv)</i>	B-5 <i>(ppm)</i>	B-6 <i>(ppm)</i>	B-7 <i>(ppm)</i>
3/27/2008	0.0100	0.0100	NS	0.0000	0.0000	NS
3/28/2008	0.0100	0.0100	NS	0.0000	0.0000	NS
4/7/2008	NS	NS	0.0100	NS	0.0000	NS
4/8/2008	NS	NS	0.0100	NS	0.0000	NS
4/24/2008	0.0100	0.0100	0.0100	0.0000	0.0000	39.73
5/1/2008	0.0100	0.0100	0.0100	0.0000	0.0000	39.73
6/2/2008	0.0100	0.0100	0.0100	0.0000	0.0000	39.73
7/10/2008	0.0100	NS	0.0100	0.0000	NS	39.73
8/20/2008	NS	0.0100	NS	NS	0.0000	39.73
9/12/2008	0.0100	0.0100	0.0100	0.0000	0.0000	39.73
11/26/2008	0.0100	0.0100	0.0100	0.0000	0.0000	39.73
3/24/2009	0.0100	0.0100	0.0100	0.0000	0.0000	39.73
6/15/2009	0.0100	0.0100	0.0100	0.0000	0.0000	39.73
8/21/2009	0.0100	0.0100	0.0100	0.0000	0.0000	39.73
11/5/2009	0.0100	0.0100	0.0100	0.0000	0.0000	39.73
2/5/2010	0.0100	0.0100	0.0100	0.0000	0.0000	39.73

NS = Not sampled.

italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Lab Data for Air Mitigation System B-1
 First Quarter 2010
 2/5/2010
 Michigan Plaza
 3801-3823 West Michigan Street
 Indianapolis, Indiana
 MUNDELL Project No.: M01046

B-1 (Lab Data)												B-1 (PID Readings)												
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	Lbs. PCE removed	µg/m³ PCE	Lbs. TCE removed	µg/m³ TCE	Lbs. VC removed	µg/m³ VC	Lbs. DCE removed	µg/m³ 1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. trans-1,2-DCE removed	Lbs. Total Pollutants Removed (µg/m³)	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
9/21/2006	0.5	73	2,190	4,281	0.00	129	0.00	38	0.00	556	0.00	0.00	0.00	0.00	0.00	0.00	9/21/2006	0.5	73	2,190	4.9	10,439	0.00	0.00
10/6/2006	360	73	1,576,800	5,980	0.59	65	0.01	38	0.00	119	0.01	0.61	0.59	0.61	9/29/2006	168	73	735,840	1.9	4,841	0.22	0.22		
10/13/2006	168	73	735,840	4,621	0.21	27	0.00	38	0.00	40	0.00	0.22	0.80	0.83	10/6/2006	192	73	840,960	1.0	3,162	0.17	0.39		
10/20/2006	168	73	735,840	5,913	0.27	27	0.00	38	0.00	40	0.00	0.28	1.07	1.10	10/13/2006	168	73	735,840	0.6	2,322	0.11	0.50		
11/17/2006	672	73	2,943,360	5,505	1.01	27	0.00	38	0.01	40	0.01	1.03	2.08	2.13	10/20/2006	168	73	735,840	0.3	1,902	0.09	0.58		
12/27/2006	960	73	4,204,800	5,029	1.32	27	0.01	38	0.01	95	0.03	1.36	3.40	3.50	11/17/2006	672	73	2,943,360	0.1	1,483	0.27	0.86		
3/30/2007	2,232	73	9,776,160	3,466	2.11	27	0.02	38	0.02	40	0.02	2.18	5.52	5.67	12/27/2006	960	73	4,204,800	0.0	1,296	0.34	1.20		
6/15/2007	1,848	73	8,094,240	34	0.02	2,477	1.25	38	0.02	834	0.42	1.71	5.53	7.38	6/15/2007	4,080	73	17,870,400	0.1	1,483	1.65	2.85		
10/16/2007	2,852	73	12,223,760	2,650	2.14	27	0.02	38	0.03	40	0.03	2.22	7.67	9.60	10/16/2007	2,952	73	12,223,760	0.1	1,483	1.20	4.04		
12/14/2007	1,416	73	6,202,080	3,942	1.52	27	0.01	38	0.01	40	0.02	1.57	9.20	11.17	12/14/2007	1,416	73	6,202,080	0.1	1,483	0.57	4.62		
3/27/2008	2,496	73	10,932,480	3,738	2.55	27	0.02	38	0.03	135	0.09	2.69	11.74	13.36	3/27/2008	2,496	73	10,932,480	1.7	4,468	3.05	7.66		
6/2/2008	1,603	73	7,043,040	4,893	2.15	27	0.01	38	0.02	40	0.02	2.20	13.89	16.05	6/2/2008	1,608	73	7,043,040	2.2	5,401	2.37	10.04		
9/12/2008	2,448	73	10,722,240	3,262	2.18	27	0.02	38	0.03	40	0.03	2.25	16.08	18.30	9/12/2008	2,448	73	10,722,240	0.3	1,856	1.24	11.28		
11/26/2008	1,800	73	7,884,000	3,128	1.54	27	0.01	38	0.02	40	0.02	1.59	17.61	19.89	11/26/2008	1,800	73	7,884,000	0.1	1,483	0.73	12.01		
3/24/2009	2,832	73	12,404,160	3,058	2.37	27	0.02	38	0.03	40	0.03	2.45	19.98	22.34	3/24/2009	2,832	73	12,404,160	0.2	1,669	1.29	13.30		
6/15/2009	1,992	73	8,724,960	2,922	1.59	27	0.01	38	0.02	40	0.02	1.65	21.57	23.98	6/15/2009	1,992	73	8,724,960	0.2	1,669	0.91	14.21		
8/21/2009	1,608	73	7,943,040	2,447	1.07	27	0.01	38	0.02	40	0.02	1.12	22.65	25.11	8/21/2009	1,608	73	7,943,040	0.2	1,669	0.73	14.94		
11/5/2009	1,824	73	7,989,120	2,243	1.12	27	0.01	38	0.02	40	0.02	1.17	23.76	26.38	11/5/2009	1,824	73	7,989,120	0.2	1,669	0.83	15.77		
2/5/2010	2,208	73	9,671,040	1,087	0.66	7,54	0.00	38	0.02	40	0.02	0.71	24.42	26.99	2/5/2010	2,208	73	9,671,040	0.23	5,588	3.37	19.14		
TOTALS:	29,593		129,615,150		24,42		0.31		1.45		0.81		26.99		TOTALS:	29,593		129,615,150		19.14				

Lab Data for Air Mitigation System B-2
 First Quarter 2010
 2/5/2010
 Michigan Plaza
 3801-3823 West Michigan Street
 Indianapolis, Indiana
 MUNDELL Project No.: M01046

B-2 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	Lbs. PCE removed	µg/m³ PCE	Lbs. TCE removed	µg/m³ TCE	Lbs. VC removed	µg/m³ VC	Lbs. cis-1,2-DCE removed	µg/m³ cis-1,2-DCE removed	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs. Removed	Cumulative Total Pollutants Removed	PID Reading (ppm VOCs)	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)	
9/21/2006	0.5	37	1,110	4.281	0.00	65	0.00	38	0.00	40	0.00	0.00	0.00	0.00	0.00	2.0	5,028	0.00	
10/6/2006	360	37	79,200	4,553	0.23	27	0.00	38	0.00	40	0.00	0.23	0.23	0.23	0.23	372,960	0.12	0.12	
10/13/2006	168	37	372,960	2,447	0.06	27	0.00	38	0.00	40	0.00	0.06	0.28	0.29	0.29	426,240	1.1	3,255	
10/20/2006	168	37	372,960	3,738	0.09	27	0.00	38	0.00	40	0.00	0.09	0.37	0.38	0.38	372,960	0.6	2,389	
11/17/2006	672	37	1,491,840	3,194	0.30	27	0.00	38	0.00	40	0.00	0.31	0.67	0.68	0.68	372,960	0.3	1,926	
12/27/2006	960	37	2,131,200	3,194	0.42	27	0.00	38	0.01	40	0.01	0.44	1.09	1.13	1.13	1,491,840	0.1	1,483	
3/30/2007	2,232	38	5,088,960	1,223	0.39	27	0.01	38	0.01	40	0.01	0.42	1.48	1.55	1.55	2,131,200	0.1	1,483	
6/15/2007	1,848	42	4,656,960	2,107	0.61	27	0.01	38	0.01	40	0.01	0.64	2.09	2.19	2.19	6,036,800	0.1	1,483	
10/16/2007	2,852	48	8,501,760	1,631	0.86	27	0.01	38	0.02	40	0.02	0.92	2.96	3.11	3.11	8,501,760	0.1	1,483	
12/14/2007	1,416	53	4,502,880	2,311	0.65	27	0.01	38	0.01	40	0.01	0.68	3.61	3.79	3.79	4,502,880	0.1	1,483	
4/11/2008	2,616	50	7,848,000	2,447	1.20	27	0.01	38	0.02	40	0.02	1.25	4.81	5.04	5.04	6,036,800	1.5	4,095	
6/2/2008	42	3,705,120	3,806	0.88	27	0.01	38	0.01	40	0.01	0.90	5.68	5.94	5.94	5.94	11,450,160	2.92	5,69	
9/12/2008	2,448	37	5,434,560	3,194	1.08	27	0.01	38	0.01	40	0.01	1.12	6.77	7.06	7.06	5,434,560	0.5	2,229	
8/21/2009	1,440	37	3,196,800	1,087	0.22	27	0.01	38	0.01	40	0.01	0.24	6.96	7.30	7.30	3,196,800	0.1	1,483	
11/5/2009	1,824	37	4,049,280	951	0.24	27	0.01	38	0.01	40	0.01	0.27	7.22	7.57	7.57	4,904,760	0.6	2,416	
2/5/2010	2,208	37	4,901,760	251	0.08	27	0.01	38	0.01	40	0.01	0.11	7.30	7.68	7.68	53,193,990	0.74	7,48	
TOTALS:	22,801		57,055,350		7.30		0.10		0.14		0.14		7.68				20,977	7.48	

Lab Data for Air Mitigation System B-3
 First Quarter 2010
 2/5/2010
Michigan Plaza
3801-3823 West Michigan Street
 Indianapolis, Indiana
 MUNDELL Project No.: M01046

B-3 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE removed	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC removed	µg/m³ VC	Lbs. VC removed	Lbs. cis-1,2-DCE removed	Lbs. cis-1,2-DCE	Lbs. Total Pollutants Removed	Cumulative Total Pollutants Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	FID Reading (ppm/VOCs)	FID Reading (ppm/VOCs)	Lbs. VOCs Removed	Cum. Total lbs (Est from FID)
9/21/2006	0.5	132	3,960	4,553	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	0.00	9/21/2006	0.5	132	3,960	1.8	4,655	0.00	0.00	
10/6/2006	360	132	2,851,200	6,592	1.17	27	0.00	38	0.01	40	0.01	1.19	1.17	1.19	1.19	9/22/2006	168	132	1,330,560	2.2	5,401	0.45	0.45	
10/13/2006	168	132	1,330,560	3,534	0.29	27	0.00	38	0.00	40	0.00	0.30	1.47	1.47	1.49	10/6/2006	192	132	1,520,640	2.1	5,215	0.49	0.94	
10/20/2006	168	132	1,330,560	6,048	0.50	27	0.00	38	0.00	40	0.00	0.51	1.97	2.01	2.01	10/13/2006	168	132	1,330,560	2.1	5,121	0.43	1.37	
11/17/2006	672	132	5,322,240	5,301	1.76	27	0.01	38	0.01	40	0.01	1.79	3.73	3.80	3.80	10/20/2006	168	132	1,330,560	2.0	5,075	0.42	1.79	
12/27/2006	960	132	7,603,200	5,097	2.42	27	0.01	38	0.02	40	0.02	2.47	6.15	6.27	6.27	11/17/2006	672	132	5,322,240	2.0	5,028	1.67	3.46	
3/30/2007	2,232	132	17,671,440	3,874	4.27	27	0.03	38	0.04	40	0.04	4.39	10.42	10.55	10.55	12/27/2006	960	132	7,603,200	0.1	1,483	0.70	4.16	
6/15/2007	1,848	132	14,636,160	1,427	1.30	27	0.02	38	0.04	40	0.04	1.40	11.72	12.05	12.05	6/7/2007	4,080	132	32,313,600	0.1	1,483	2.99	7.15	
10/16/2007	2,952	132	23,379,840	1,903	2.78	27	0.04	38	0.06	40	0.06	2.93	14.50	14.98	14.98	10/16/2007	2,952	132	23,379,840	0.1	1,483	2.16	9.31	
12/14/2007	1,416	132	11,214,720	3,534	2.47	27	0.02	38	0.03	40	0.03	2.55	16.97	17.53	17.53	12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	10.35	
3/27/2008	2,496	132	19,768,320	3,806	4.69	27	0.03	38	0.05	40	0.05	4.82	21.66	22.35	22.35	3/27/2008	2,496	132	19,768,320	1.3	3,722	4.59	14.94	
6/2/2008	1,608	132	12,735,360	3,330	2.65	27	0.02	38	0.03	40	0.03	2.73	24.31	25.08	25.08	6/2/2008	1,608	132	12,735,360	1.2	3,535	2.81	17.75	
9/12/2008	2,448	132	19,383,160	3,602	4.36	27	0.03	38	0.05	40	0.05	4.48	28.66	29.56	29.56	9/12/2008	2,448	132	19,388,160	0.5	2,229	2.70	20.44	
11/26/2008	1,800	132	14,256,000	2,447	2.18	27	0.02	38	0.03	40	0.04	2.27	30.84	31.83	31.83	11/26/2008	1,800	132	14,256,000	0.4	2,042	1.82	22.26	
3/24/2009	2,832	132	22,429,440	3,738	5.23	27	0.04	38	0.05	40	0.06	5.38	36.07	37.21	37.21	3/24/2009	2,832	132	22,429,440	0.6	2,416	3.38	25.64	
6/15/2009	1,992	132	15,776,440	2,854	2.81	27	0.03	38	0.04	40	0.04	2.91	38.88	40.12	40.12	6/15/2009	1,992	132	15,776,640	0.6	2,416	2.38	28.02	
8/21/2009	1,608	132	12,735,360	3,194	2.54	27	0.02	38	0.03	40	0.03	2.62	41.41	42.74	42.74	8/31/2009	1,848	132	14,636,160	0.6	2,416	2.21	30.22	
11/5/2009	1,824	132	14,448,080	2,786	2.51	27	0.02	38	0.03	40	0.04	2.61	43.93	45.35	45.35	11/5/2009	1,584	132	12,545,280	0.6	2,416	1.89	32.11	
2/5/2010	2,208	132	17,487,360	951,44	1,04	6,46	0.01	38	0.04	40	0.04	1.13	44.96	46.48	46.48	2/5/2010	2,208	132	17,487,360	1.5	4,095	4.47	36.56	
TOTALS:	29,593		234,372,800		44.96		0.37		0.56		46.48		0.58		29,593		234,372,800		29,593		36.56			

B-3 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	Lbs. VOCs Removed	µg/m³ VOCs	Lbs. VOCs removed	Lbs. cis-1,2-DCE removed	Lbs. cis-1,2-DCE	Lbs. Total Pollutants Removed	Cumulative Total Pollutants Removed	FID Reading (ppm/VOCs)	FID Reading (ppm/VOCs)	Lbs. VOCs Removed	Cum. Total lbs (Est from FID)								
9/21/2006	0.5	132	3,960	4,553	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00								
10/6/2006	360	132	2,851,200	6,592	1.17	27	0.00	38	0.01	40	0.01	1.19	1.30	1.30								
10/13/2006	168	132	1,330,560	3,534	0.29	27	0.00	38	0.00	40	0.00	1.47	1.52	1.64								
10/20/2006	168	132	1,330,560	6,048	0.50	27	0.00	38	0.00	40	0.00	1.97	2.01	2.06								
11/17/2006	672	132	5,322,240	5,301	1.76	27	0.01	38	0.01	40	0.01	1.79	3.73	3.80								
12/27/2006	960	132	7,603,200	5,097	2.42	27	0.01	38	0.02	40	0.02	2.47	6.15	6.27								
3/30/2007	2,232	132	17,671,440	3,874	4.27	27	0.03	38	0.04	40	0.04	4.39	10.42	10.55								
6/15/2007	1,848	132	14,636,160	1,427	1.30	27	0.02	38	0.04	40	0.04	1.40	11.72	12.05								
10/16/2007	2,952	132	23,379,840	1,903	2.78	27	0.04	38	0.06	40	0.06	2.93	14.50	14.98								
12/14/2007	1,416	132	11,214,720	3,534	2.47	27	0.02	38	0.03	40	0.03	2.55	16.97	17.53								
3/27/2008	2,496	132	19,768,320	3,806	4.69	27	0.03	38	0.05	40	0.05	4.82	21.66	22.35								
6/2/2008	1,608	132	12,735,360	3,330	2.65	27	0.02	38	0.03	40	0.03	2.73	24.31	25.08								
9/12/2008	2,448	132	19,383,160	3,602	4.36	27	0.03	38	0.05	40	0.05	4.48	28.66	29.56								
11/26/2008	1,800	132	14,256,000	2,447	2.18	27	0.02	38	0.03	40	0.04	2.27	30.84	31.83								
3/24/2009	2,832	132	22,429,440	3,738	5.23	27	0.04	38	0.05	40	0.06	5.38	36.07	37.21								
6/15/2009	1,992	132	15,776,440	2,854	2.81	27	0.03	38	0.04	40	0.04	2.91	38.88	40.12								
8/21/2009	1,608	132	12,735,360	3,194	2.54	27	0.02	38	0.03	40	0.03	2.62	41.41	42.74								
11/5/2009	1,824	132	14,448,080	2,786	2.51	27	0.02	38	0.03	40	0.04	2.61	43.93	45.35								
2/5/2010	2,208	132	17,487,360	951,44	1,04	6,46	0.01	38	0.04	40	0.04	1.13	44.96	46.48								
TOTALS:	29,593		234,372,800		44.96		0.37		0.56		46.48		0.58		29,593		234,372,800		29,593		36.56	

Lab Data for Air Mitigation System B-4
 First Quarter 2010
 2/5/2010
 Michigan Plaza
 3801-3823 West Michigan Street
 Indianapolis, Indiana
 MUNDELL Project No.: M01046

B-4 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE removed	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE removed	µg/m³ VC	Lbs. TCE removed	µg/m³ 1,2-DCE removed	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutants lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	FID Reading (ppm/VOCs)	FID Reading (ppm/VOCs)	Air Vol. Removed per Cycle (CF)	Lbs. VOCs Removed	Cum. Total lbs (Est from PID)
9/21/2006	0.5	132	3,960	1,903	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	9/21/2006	0.5	132	3,960	0.2	1,669	0.00	0.00
10/6/2006	360	132	2,851,200	2,107	0.37	27	0.00	38	0.01	40	0.01	0.39	0.38	9/22/2006	168	132	1,330,560	0.4	2,042	0.17	0.17
10/13/2006	168	132	1,330,560	1,427	0.12	27	0.00	38	0.00	40	0.00	0.13	0.49	10/6/2006	192	132	1,520,640	0.3	1,763	0.17	0.34
10/20/2006	168	132	1,330,560	1,495	0.12	27	0.00	38	0.00	40	0.00	0.13	0.62	10/13/2006	168	132	1,330,560	0.2	1,623	0.13	0.47
11/17/2006	672	132	5,322,240	1,019	0.34	27	0.01	38	0.01	40	0.01	0.37	0.96	10/20/2006	168	132	1,330,560	0.1	1,553	0.13	0.60
12/27/2006	960	132	7,603,200	748	0.35	27	0.01	38	0.02	40	0.02	0.40	1.31	11/17/2006	672	132	5,322,240	0.1	1,483	0.49	1.09
3/20/2007	2,232	130	17,342,240	211	0.23	27	0.03	38	0.04	40	0.04	0.34	1.54	12/27/2006	960	132	7,603,200	0.1	1,483	0.70	1.80
6/15/2007	1,848	125	13,887,720	3,126	2.71	27	0.02	38	0.03	40	0.03	2.80	4.25	6/7/2007	4,080	127.75	31,273,200	0.1	1,483	2.89	4.69
10/16/2007	2,952	128	22,927,780	455	0.64	27	0.04	38	0.05	40	0.06	0.79	4.89	10/16/2007	2,952	128	22,671,360	0.1	1,483	2.10	6.78
12/14/2007	1,416	132	11,214,720	951	0.67	27	0.02	38	0.03	40	0.03	0.74	5.56	12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	7.82
3/27/2008	2,496	128	19,094,400	503	0.60	27	0.03	38	0.05	40	0.05	0.72	6.15	3/29/2008	2,944	128	19,537,920	1.8	4,665	5.67	13.50
6/2/2008	1,608	119	11,481,120	680	0.49	27	0.02	38	0.03	40	0.03	0.56	6.64	6/2/2008	1,560	119	11,138,400	0.3	1,886	1.29	14.78
9/12/2008	2,448	132	19,383,160	883	1.07	27	0.03	38	0.05	40	0.05	1.20	7.71	9/12/2008	2,448	132	19,388,160	0.4	2,042	2.47	17.25
11/26/2008	1,800	132	14,256,000	748	0.66	27	0.02	38	0.03	40	0.04	0.76	8.37	9/31/2008	1,800	132	14,256,000	0.1	1,483	1.32	18.57
3/24/2009	2,832	132	22,429,440	34	0.05	27	0.04	38	0.05	40	0.06	0.19	8.42	3/24/2009	2,832	132	22,229,440	0.3	1,763	2.47	21.04
6/15/2009	1,992	132	15,776,440	136	0.13	27	0.03	38	0.04	40	0.04	0.24	8.56	6/15/2009	1,992	132	15,776,640	0.3	1,886	1.83	22.87
8/21/2009	1,608	132	12,735,360	95	0.08	27	0.02	38	0.03	40	0.03	0.16	8.63	8/31/2009	1,848	132	14,636,160	0.3	1,886	1.69	24.56
11/5/2009	1,824	132	14,448,080	34	0.03	27	0.02	38	0.03	40	0.04	0.13	8.66	11/5/2009	1,584	132	12,545,280	0.3	1,886	1.45	26.01
2/5/2010	2,208	132	17,487,360	82	0.09	27	0.03	38	0.04	40	0.04	0.20	8.75	2/5/2010	2,208	132	17,387,360	0.6	2,416	2.64	28.65
TOTALS:	29,593		230,608,440		6.75	0.39	0.55	0.57	10.26					TOTALS:	29,593		230,796,360	28.65			

Lab Data for Air Mitigation System B-5
 First Quarter 2010
 2/5/2010
Michigan Plaza
3801-3923 West Michigan Street
 Indianapolis, Indiana
 MUNIDELL Project No.: M01046

B-5 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m ³ PCE removed	Lbs. PCE removed	µg/m ³ TCE removed	Lbs. TCE removed	µg/m ³ VC removed	Lbs. VC removed	µg/m ³ Cis-1,2-DCE removed	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutants lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	FID Reading (ppm VOCs)	FID Reading (ppm VOCs)	Lbs. VOCs Removed	Cum Total lbs Removed from PID	
3/27/2008	0.5	130	3,900	883	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	3/29/2008	50	119	357,000	0.1	1,483	0.03	0.03
3/28/2008	24	127	182,880	496	0.01	27	0.00	38	0.00	40	0.00	0.01	0.01	3/31/2008	48	118	339,840	0.2	1,669	0.04	0.07
4/24/2008	648	120	4,665,600	387	0.11	27	0.01	38	0.01	40	0.01	0.14	0.14	5/1/2008	744	116	5,178,240	0.1	1,483	0.48	0.55
5/1/2008	188	115	1,159,200	394	0.03	27	0.00	38	0.00	40	0.00	0.04	0.18	6/2/2008	768	114	5,253,120	0.2	1,669	0.55	1.09
6/2/2008	768	114	5,253,120	401	0.13	27	0.01	38	0.01	40	0.01	0.17	0.27	9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	2.64
7/10/2008	912	115	6,292,800	442	0.17	27	0.01	38	0.02	40	0.02	0.21	0.45	11/26/2008	1,800	113	12,204,000	0.1	1,483	1.13	3.77
9/12/2008	1,536	114	10,500,240	469	0.31	27	0.02	38	0.03	40	0.03	0.38	0.75	3/24/2009	2,832	122	20,730,240	0.1	1,483	1.92	5.69
11/26/2008	1,800	113	12,204,000	489	0.37	27	0.02	38	0.03	40	0.03	0.45	1.13	6/15/2009	1,992	122	14,581,440	0.1	1,483	1.35	7.04
3/24/2009	2,832	122	20,730,240	1,427	1.85	27	0.03	38	0.05	40	0.05	1.98	2.97	8/31/2009	3,840	122	28,108,800	0.1	1,483	2.60	9.64
6/15/2009	1,992	122	14,581,440	394	0.36	27	0.02	38	0.03	40	0.04	0.45	3.33	11/15/2009	1,584	122	11,594,880	0.1	1,483	1.07	10.71
8/21/2009	1,608	122	11,770,560	428	0.31	27	0.02	38	0.03	40	0.03	0.39	3.64	4/22/2010	2,208	122	16,162,560	0.5	2,229	2.25	12.96
11/5/2009	1,824	122	13,351,680	883	0.74	27	0.02	38	0.03	40	0.03	0.82	4.38	5/04/2010	18,314	122	131,254,440	0.5	2,229	2.25	12.96
2/5/2010	2,208	122	16,162,560	150	0.15	8,62	0.01	38	0.04	40	0.04	0.24	4.53	TOTALS:	16,321	116,864,420	4.53	0.18	0.28	0.29	5.28

Lab Data for Air Mitigation System B-6
 First Quarter 2010
 2/5/2010
 Michigan Plaza
 3801-3823 West Michigan Street
 Indianapolis, Indiana
 MUNIDELL Project No.: M01046

B-6 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE removed	µg/m³ TCE removed	Lbs. PCE removed	Lbs. TCE removed	µg/m³ VC removed	µg/m³ TCE removed	Lbs. VC removed	Lbs. TCE removed	Lbs. cis-1,2-DCE removed	Lbs. cis-1,2-DCE removed	Cumulative Total Pollutants Removed	Cumulative Total Pollutants Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	FID Reading (ppm VOCs)	FID Reading (ppm VOCs)	Lbs. VOCs Removed	Cum Total lbs (Est from PID)
3/27/2008	0.5	130	3,900	8,155	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	0.00	3/29/2008	50	110	330,000	1.7	4,468	0.09	0.09
3/28/2008	24	119	171,144	3,330	0.04	27	0.00	38	0.00	40	0.00	0.04	0.04	0.04	0.04	3/31/2008	48	111	319,680	0.1	1,483	0.03	0.12
4/24/2008	648	114	4,426,488	748	0.21	27	0.01	38	0.01	40	0.01	0.24	0.24	0.24	0.24	5/1/2008	744	118	5,267,520	0.3	1,856	0.61	0.73
5/1/2008	168	123	1,234,800	1,427	0.11	27	0.00	38	0.00	40	0.00	0.12	0.35	0.35	0.39	6/2/2008	768	120	5,529,600	1.1	3,349	1.16	1.89
6/2/2008	768	120	5,506,560	1,495	0.51	27	0.01	38	0.01	40	0.01	0.55	0.87	0.87	0.94	9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	3.43
8/20/2008	1,896	120	13,651,200	1,835	1.56	27	0.02	38	0.03	40	0.03	1.65	2.43	2.43	2.59	11/26/2008	1,800	114	12,312,000	0.2	1,669	1.28	4.72
9/12/2008	552	114	3,775,680	1,223	0.29	27	0.01	38	0.01	40	0.01	0.31	2.72	2.72	2.91	3/24/2009	2,832	118	20,056,560	0.3	1,856	2.32	7.04
11/26/2008	1,800	112	12,098,000	748	0.56	27	0.02	38	0.03	40	0.03	0.64	3.28	3.28	3.55	6/15/2009	1,992	118	14,103,360	0.3	1,856	1.63	8.67
3/24/2009	2,832	118	20,050,560	883	1.10	27	0.03	38	0.05	40	0.05	1.24	4.39	4.39	4.79	8/31/2009	1,848	118	13,083,840	0.3	1,856	1.51	10.19
6/15/2009	1,992	118	14,103,360	571	0.50	27	0.02	38	0.03	40	0.03	0.59	5.38	5.38	5.84	11/5/2009	1,584	118	11,214,720	0.3	1,856	1.30	11.48
8/21/2009	1,608	118	11,384,640	483	0.34	27	0.02	38	0.03	40	0.03	0.42	5.23	5.23	5.80	2/5/2010	2,208	118	15,632,640	0.9	2,975	2.90	14.38
11/5/2009	1,824	118	12,913,920	748	0.60	27	0.02	38	0.03	40	0.03	0.69	5.83	5.83	6.49	TOTALS:	16,322		114,588,240	14.38			
TOTALS:	16,321		114,950,992	6.36		0.17		0.28		0.28		0.61	6.36	7.10									

Lab Data for Air Mitigation System B-7
 First Quarter 2010
 2/5/2010
 Michigan Plaza
 3801-3823 West Michigan Street
 Indianapolis, Indiana
 MUNDELL Project No.: M01046

B-7 (Lab Data)

B-7 (PID Readings)											
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE removed	µg/m³ TCE removed	µg/m³ VC removed	µg/m³ 1,2-DCE removed	Lbs. VOC Pollutants Removed	Lbs. Total VOC Pollutants Removed	Cumulative Total VOCs Removed	Cum. Total lbs (Est from PID)
4/7/2008	0.5	117	3,510	516	0.00	27	0.00	38	0.00	0.00	0.38
4/8/2008	24	117	168,480	319	0.00	27	0.00	38	0.00	0.00	1.01
4/24/2008	384	117	2,695,680	150	0.03	27	0.00	38	0.01	0.04	2.56
5/1/2008	188	120	1,209,600	285	0.02	27	0.00	38	0.00	0.05	3.82
6/2/2008	768	117	5,391,360	360	0.12	27	0.01	38	0.01	0.17	6.14
7/10/2008	912	118	6,456,960	367	0.15	27	0.01	38	0.02	0.19	7.77
9/12/2008	1,536	114	10,500,240	367	0.24	27	0.02	38	0.03	0.31	9.28
11/26/2008	1,800	112	12,096,000	381	0.29	27	0.02	38	0.03	0.37	10.58
3/24/2009	2,832	118	20,050,560	401	0.50	27	0.03	38	0.05	0.63	1.30
6/15/2009	1,992	118	14,103,360	34	0.03	27	0.02	38	0.03	0.12	1.45
8/21/2009	1,608	118	11,384,640	34	0.02	27	0.02	38	0.03	0.10	1.95
11/5/2009	1,824	118	12,913,920	34	0.03	27	0.02	38	0.03	0.11	2.06
2/5/2010	2,208	118	15,633,640	14,95	0.01	27	0.03	38	0.04	0.12	2.18
TOTALS:	16,057			112,612,550	1.44		0.19		0.27	0.26	2.16
										TOTALS:	16,056
											112,464,000
											12.03

Michigan Plaza
First Quarter 2010
2/5/2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-1-B-4)				
Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.00	0.00	0.00	0.00
10/6/2006	2.36	2.36	2.43	2.43
10/13/2006	0.68	3.05	0.71	3.13
10/20/2006	0.98	4.03	1.01	4.14
11/17/2006	3.41	7.44	3.51	7.65
12/27/2006	4.52	11.95	4.67	12.32
3/30/2007	7.00	18.95	7.33	19.65
6/15/2007	4.64	23.59	6.55	26.20
10/16/2007	6.42	30.01	6.86	33.06
12/14/2007	5.31	35.33	5.53	38.59
3/27/2008	7.84	43.17	8.23	46.82
4/1/2008	1.20	44.36	1.25	48.07
6/2/2008	6.16	50.53	6.39	54.46
9/12/2008	8.69	59.22	9.05	63.51
11/26/2008	4.38	63.59	4.62	68.13
3/24/2009	7.64	71.24	8.02	76.15
6/15/2009	4.53	75.77	4.80	80.94
8/21/2009	3.90	79.67	4.14	85.08
11/5/2009	3.90	83.57	4.17	89.25
2/5/2010	1.77	85.35	1.95	91.20

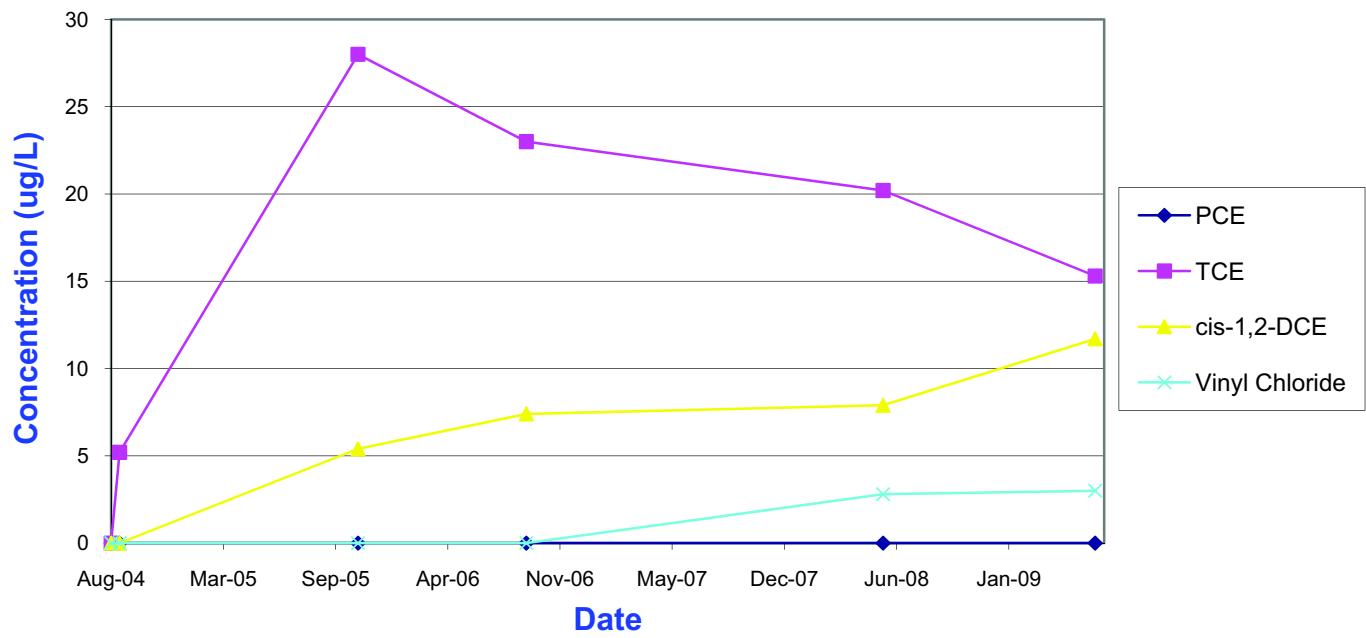
Michigan Apartments
First Quarter 2010
2/5/2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-5-B-7)				
Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.00	0.00	0.00	0.00
3/28/2008	0.04	0.04	0.04	0.05
4/7/2008	0.00	0.04	0.00	0.05
4/8/2008	0.00	0.05	0.00	0.05
4/24/2008	0.34	0.39	0.42	0.47
5/1/2008	0.16	0.54	0.18	0.65
6/2/2008	0.77	1.31	0.87	1.52
7/10/2008	0.32	1.63	0.40	1.92
8/20/2008	1.56	3.19	1.65	3.58
9/12/2008	0.84	4.03	1.00	4.58
11/26/2008	1.22	5.25	1.46	6.04
3/24/2009	3.45	8.71	3.85	9.89
6/15/2009	0.89	9.60	1.17	11.06
8/21/2009	0.68	10.28	0.91	11.97
11/5/2009	1.40	11.67	1.75	13.71
2/5/2010	0.78	12.46	1.17	14.89

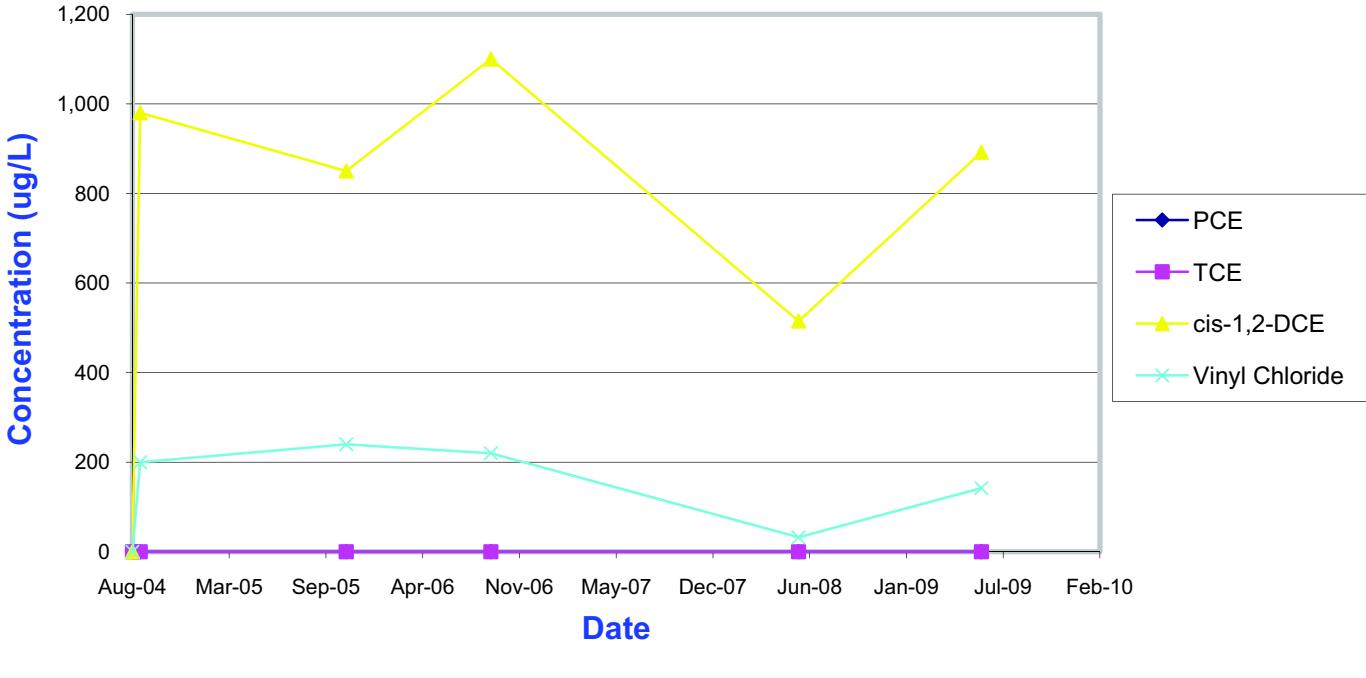
APPENDIX C

Indicator Compound Trends at the Northern Wells

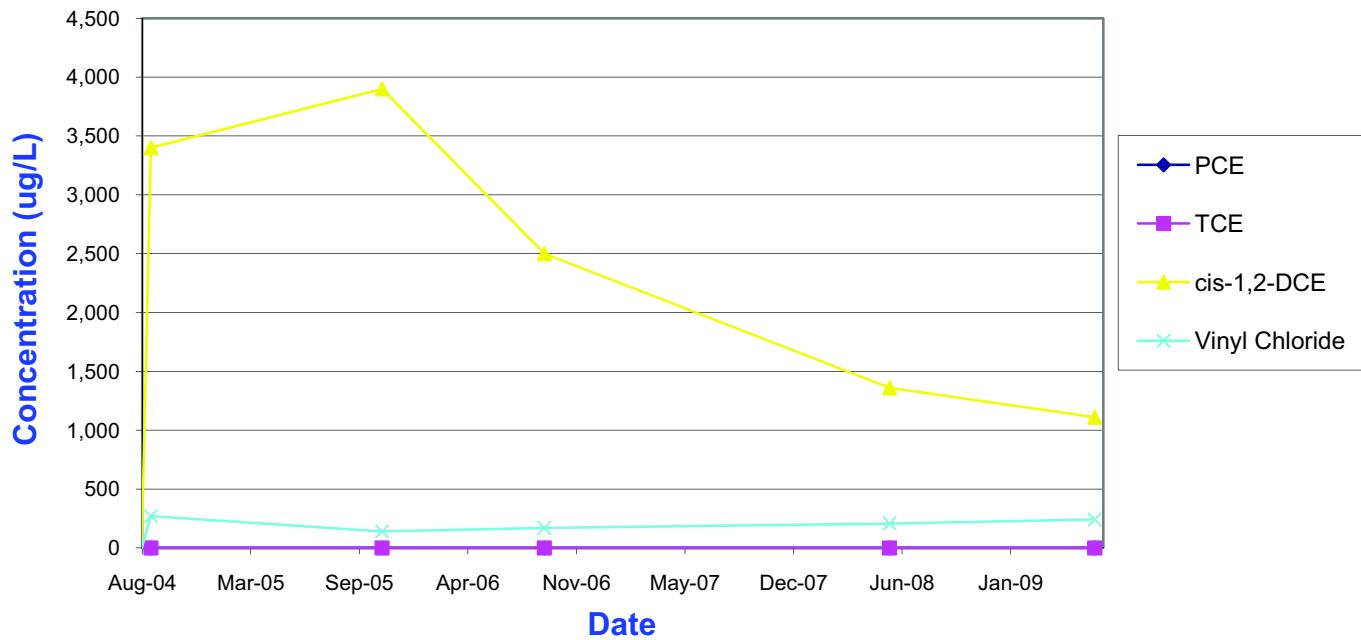
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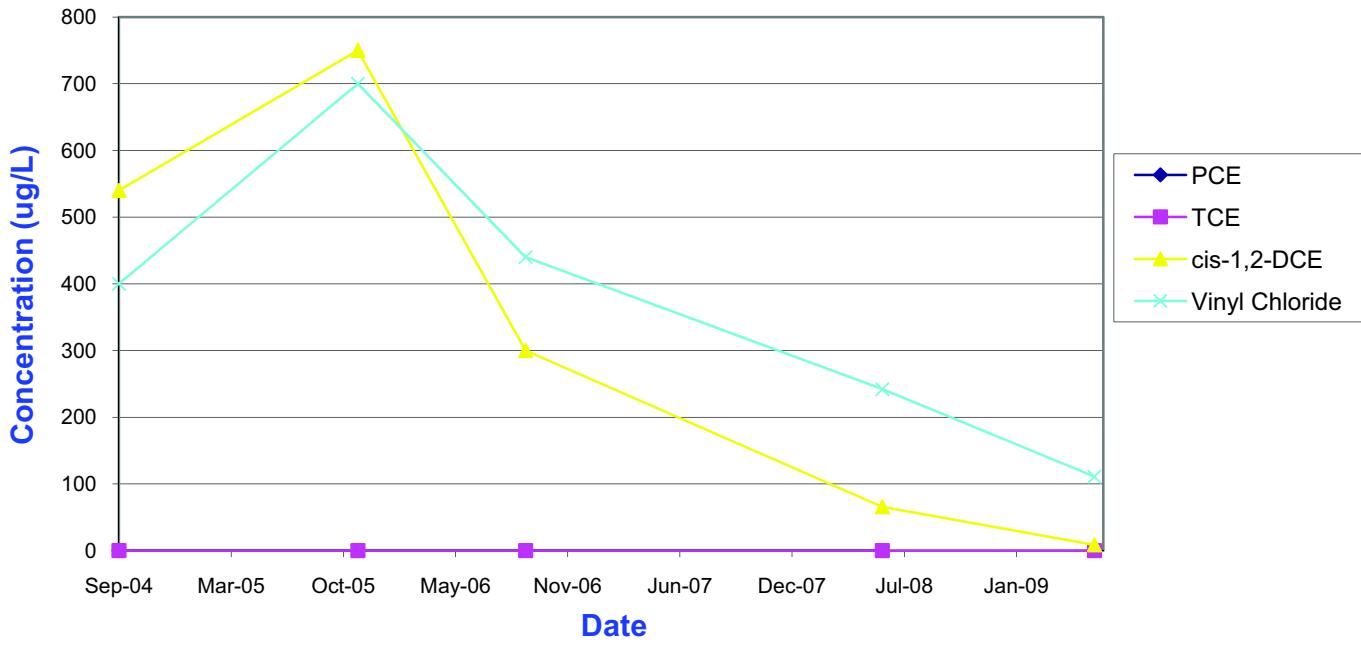
MMW-4D



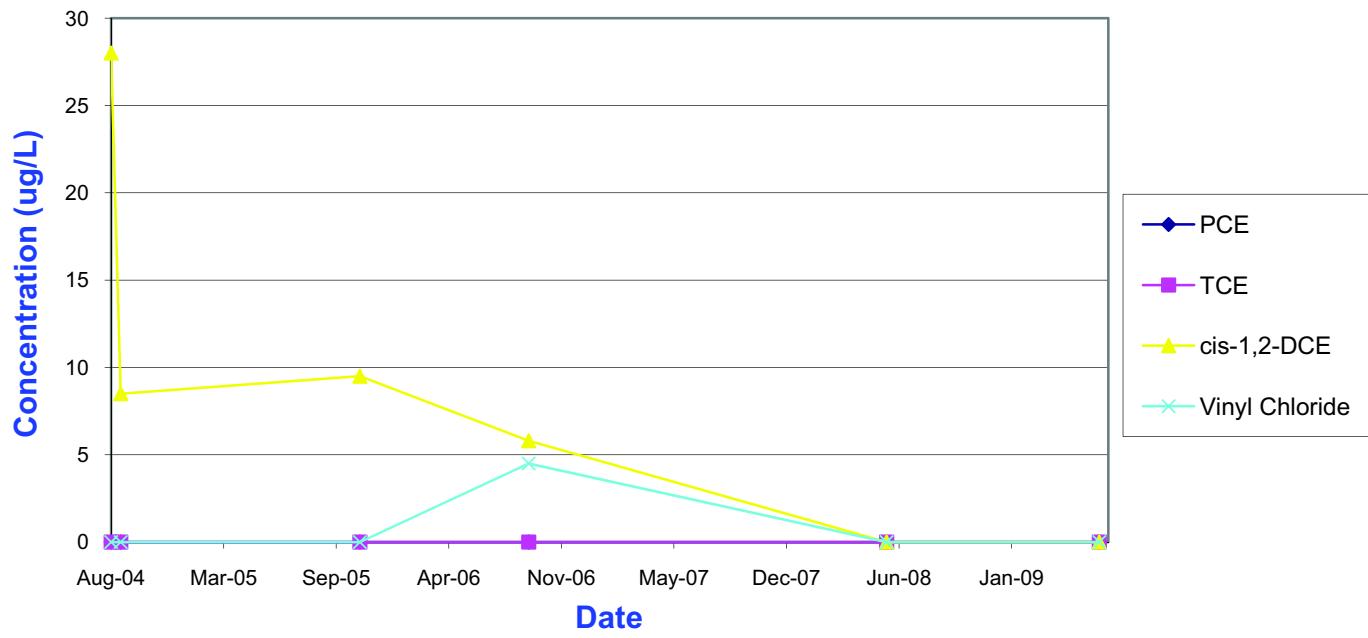
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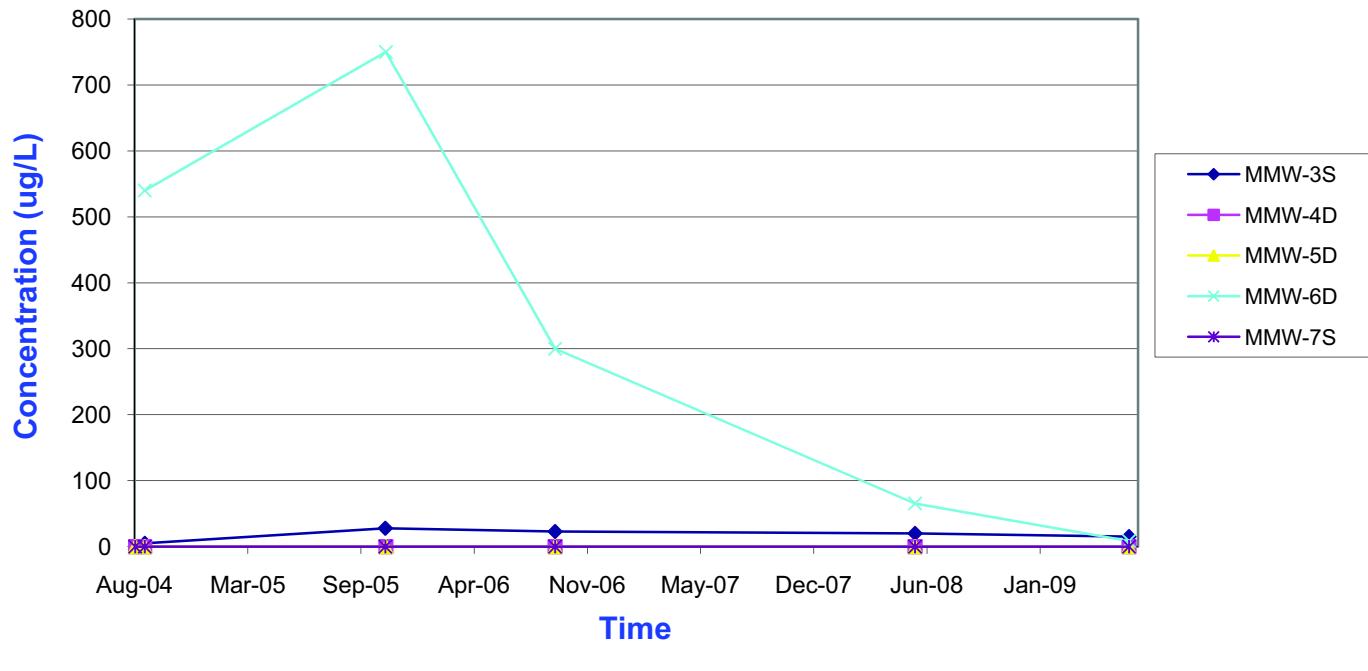
MMW-6D



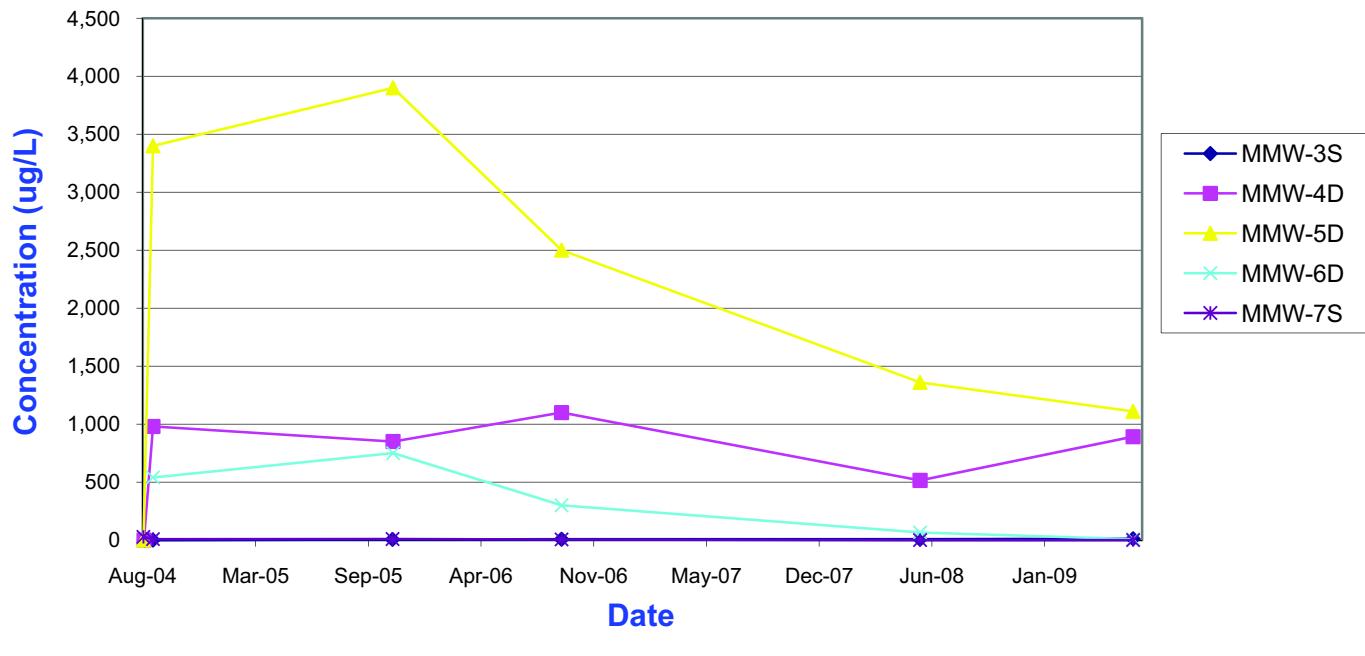
MMW-7S



TCE



cis-1,2-DCE



Vinyl Chloride

